



product catalogue

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# imagine create tell



Some camera support innovations are so fundamental that it is impossible to imagine the world of television camera-work without them. The fluid action head, first patented by the Australian company Miller, is a perfect example of one such innovation. Before Bob Miller invented the world's first fluid head in 1946, camera operators had no option but to work with bulky and expensive gear-driven assemblies whereby panning shots were tricky and diagonal moves virtually impossible.

Miller fluid heads revolutionised the film and television industry by giving operators the freedom to shoot far more creatively, reduced production time and achieved shots that were previously unobtainable.

Sixty plus years on and with more than 200,000 systems in use globally, Miller products feature in electronic news gathering, electronic field production, as well as cinema and television productions in world leading networks, production houses, corporate, educational and government institutions in more than 65 countries.

These organisations use Miller because it is the trusted brand of the industry, an enduring reputation earned over the years for the reliability, robustness, quality and after-sales support of its products. It is therefore comforting to know that when you own a Miller you are in good company.

Experienced operators know that reliability is crucial, and trust Miller particularly when working in remote and difficult conditions. Miller's obsession with quality is legendary, emanating from its uncompromising strive to reach the highest quality standards.

Miller's three-year Parts and Service Warranty is a testimony to the company's confidence in its products. In the unlikely event that service assistance is required, Miller has a global service network of factory-trained staff who are always ready to assist and provide peace of mind.

Quality, reliability and peace of mind. Miller - the right feel - enabling users to imagine, create and tell their story.

# Fluid Heads

## Why choose a Miller?

Miller Camera Support Equipment is a company solely dedicated to designing and manufacturing fluid heads, tripods and ancillary camera support equipment. Each product is made by passionate, zealous and highly skilled craftsmen whose combined number of years of experience adds up to many centuries. Miller products are made from the highest quality, environmentally-friendly materials, and manufactured using high precision CNC machinery, modern manufacturing processes under strict quality control.

Each product is tested to a stringent tolerance and performance regime through multiple levels of quality control, starting at raw material level, followed by component level and finally at finished product level and then before the product is shipped, a final check is made before packing.

Good design combined with stringent manufacturing and quality control results in many years of trouble-free service, evident by the large number of Miller products, sold many years ago, that are still in use.

## When choosing a Miller Fluid Head

If you ask any camera operator what they consider to be the most important piece of equipment on a shoot, they will most likely tell you a rock solid tripod and a smooth fluid head.

When choosing a fluid head and tripod, think ahead five years plus, because this piece of equipment, will most likely be still with you then. Will it still do the job? Choosing the right fluid head and tripod system depends on many factors for example, the type and size of your camera, your shooting style and the locations your work will take you to and then finally budget. Don't be afraid to stretch the budget. Most people regret having skimmed down the track. Think of the cost of losing work due to bad equipment, not the price you pay for good equipment.

## Payload & payload range

One of the most important things you need to consider when choosing a fluid head is the payload capacity. The payload capacity is dependant, not only on the dead weight of the rig, but also on the center of gravity of the total camera rig placed on top of the fluid head, including the camera, lens and other accessories.

Center of gravity (COG) is defined as the point at which the entire weight of a body may be considered as concentrated, so that if supported at this point, the body would remain in equilibrium in any position.

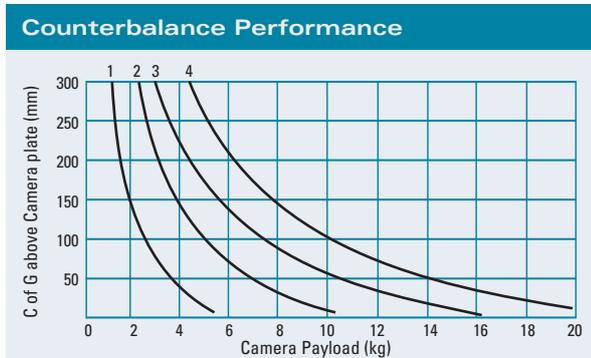
The center of gravity of a symmetrical cube is the physical center of the cube. A camera rig however is not a symmetrical object and its COG may be anywhere along the length of the rig and between 50mm to 150mm or more, above the camera plate. Typically, fluid head manufacturers specify the payload range at 100mm to 150mm above the camera plate.

## Counterbalance

Counterbalance is used to counter the weight of the camera rig when tilting. The amount of counterbalance force required depends on the weight of the rig and the location of its center of gravity. When setting up a fluid head with the camera rig mounted, the balance point of the rig needs to be found by sliding the rig backwards or forward to a point of equilibrium with counterbalance set to minimum.

After the camera rig is balanced to a point where the rig stays level, the counterbalance (CB) springs, built-in within the head, take over when CB is stepped up and the rig is tilted backwards or forward. If the CB force is too strong, then the rig will spring back and CB should be set to a lower step. If the CB is too light, the rig will drop forward or backwards. In this case CB should be increased. By selecting the right CB position, using the counterbalance selector knob, you are looking to select a spring with the right amount of force to keep the rig at approximately half tilt, without springing back to level or dropping to full tilt. It is possible that the exact amount of counterbalance force required lies somewhere between two positions of the CB selector. In this case, select the position that provides a slight amount of spring-back and add some tilt drag to counter the spring-back. In the case of Arrow<sup>x</sup> switch on CB Plus to add a half step.

In a practical example, the payload range of a Compass<sup>x</sup> 6 at 100mm COG is specified as 0kg (0lbs) to 12kg (26.4lbs). Say your camera with lens weighs 6kg (13.2lbs) and you add a matte box and top mount viewfinder that weigh 5kg (11lbs). Total payload is now 11kg (24.2lbs). At face value it would appear that the Compass<sup>x</sup> 6 is suitable for your rig, however if the center of gravity is at say 150mm above the camera plate, the payload range of the Compass<sup>x</sup> 6 is reduced to around 9kg (19.8lbs), which means that the Compass<sup>x</sup> 6 is not the right head for your rig and you need to move up to something bigger.



The Counterbalance performance graphs, published in this catalogue are intended to enable you to work out the payload range at different heights of COG. Always allow enough payload range headroom allowing for lens and accessory changes.

To determine which product meets your requirements best, review the fluid head payload specifications, analyse the additional key features of the head such as the number of counterbalance positions, camera plate travel range and pan-tilt drag controls. Multiple choices are available from Miller ranging from compact lightweight 75mm heads through to heavy duty 150mm heads to suit your every application and budget.

## Pan-tilt fluid drag

Soft starts and smooth stops are the hallmarks of Miller's fluid drag system. In much the same way as the stroke of a rower is controlled by water, the fluid drag system applies carefully controlled resistance to ensure the force (torque) generated by the camera operator is counteracted by constant resistance through the entire pan or tilt action including start and stop. Miller prides itself and is known to make the world best constant drag fluid heads with smooth starts and soft stops.

Miller offers a variety of models, including single and multi-drag. Unlike wind-up drag systems, stepped drag enables the user to precisely and repeatedly select the level of drag depending upon the focal length of the lens, shooting frame rate, distance from the subject, size and the speed of camera movement.

Stepped drag is particularly advantageous where quick repeatability of drag is required. The user can rapidly deploy light pan and tilt drag settings for fast action shots, and then switch to heavier drag for long steady zoom sequences. A lower shooting frame rate, for example, 24 fps, may require slower pan and tilts to reduce frame judder. In this case, more drag resistance may be required.

In addition to pan-tilt drag, when choosing a fluid head, diagonal drag needs to be considered. Drag should be symmetrical in all directions when, for example, if both pan and tilt drag are set on position 3, then drag should feel the same in every direction.

## Pan-tilt locks

Camera operators in the know, look for bounce-free pan and tilt locks. When shooting a long sequence, for example, if the fluid head needs to be locked off in a fixed position, the locking action should not cause any picture disturbance.

Miller uses a floating calliper locking system, which means that the calliper is freely floating and automatically finds the right position, enabling it to grab the locking disc without causing any bounce or picture disturbance.

## In summary

When choosing a fluid head:-

- Buy it for the long term and do not skimp on price.
- Choose the head with the right payload capacity for you. Take into account changing COG due to changing rig configurations.
- Smooth start, soft stops and constant drag are fundamental requirements of a fluid head.
- The locking mechanism should not create a disturbance in the picture.
- Miller staff and dealers should be pleased to assist you with any information and advice required.

## Miller 3 year global warranty

Miller warrants that all products in this catalogue to be free from defects in material and workmanship under normal and proper usage for a period of thirty-six (36) months from the date of purchase.

Upon presentation of proof of purchase, Miller will repair, to original product specifications, at no cost for parts and labour to the purchaser.

# 75mm series

## Fluid head range

Built to withstand the rigours of modern digital video production, the Miller 75mm range of fluid heads and tripods is lightweight, compact and reliable even in the most challenging shooting conditions.

The Miller 75mm fluid head range, including AIR, DS and Compass<sup>x</sup>, has been specifically developed for ENG, small studio and location productions.

Controls are simple and easy to operate ideal for small to medium size cameras perfect for operators seeking professional performance without compromise on quality.

## At a glance

- Authentic Miller fluid head pan-tilt technology
- Compact, lightweight and versatile
- Payloads between 0-12kg (0-26.5lbs)
- Sliding camera plates with suitable travel to enable accurate balance
- + 90° to -75° tilt range
- Simple easy-to-operate controls
- 75mm ball levelling
- The Compass<sup>x</sup> range features an illuminated bubble level
- Removable ball level stud for flat base mounting



*Jonah M. Kessel  
The New York Times video journalist*

*“The legs are super light, easy to carry with the strap built-in and simply far more advanced than any other tripod I’ve encountered in the same price range,” Kessel concludes. “Also, the head hits a sweet spot, offering incredible functionality for its small size. For run-and-gun shoots in challenging locations, it is important to find the lightest possible option that lets you work quickly and comfortably - and, for me, that’s the Miller Air.”*

# 1042 AIR FLUID HEAD



## THE LIGHTWEIGHT, BROADCAST QUALITY, TRAVEL COMPANION FOR PROFESSIONALS

AIR is purpose-built for new entrants into the field of videography and for professionals who want a lightweight travel companion for payloads up to 5kg (11lbs).

For that fast action run and gun shooting you will need the dual position counterbalance plus 60mm camera plate travel to enable quick and easy balancing in both standard and heavier camera configurations. Whatever your application the AIR will always impress.

Constructed of lightweight high-strength die-cast alloy and rigid composite polymers. Featuring precision ball bearing supported pan and tilt movements, AIR is extremely durable and robust delivering silky smooth pan-tilt fluid actions to match camera payloads up to 5kg (11lbs).

AIR fluid drag system is uniquely designed to employ smooth start and soft stop technology with no variation in performance over a wide range of temperatures and environments.

AIR is a lightweight compact choice that will deliver good dependable results for many years. It meets the demands of professional storytellers and comes with the reliability and **"THE RIGHT FEEL"** that are the hallmarks of every Miller product.

## Features

- Compact, lightweight, dependable.
- 2 selectable positions of counterbalance.
- Perfect for camera payloads to 2-5kg (4.4-11lbs).
- Unique, reliable fluid drag technology delivering smooth starts, soft stops pans-tilt actions.
- Consistent fluid drag performance in extreme environments.
- Precision ball bearing mounted pan-tilt movement.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Quick release, 60mm balance travel camera plate.
- Robust construction for rugged outdoor shooting conditions, built for endurance.
- Removable ball level stud for flat base mounting (Sliders) with 3/8" screw hole.
- Accessory mount option for viewfinders.
- Optional second pan handle mount.
- 3 year warranty.

Quick release camera plate knob

Positive pan-tilt locks calliper brake system

Perfect for payloads up to 5kg

75mm ball levelling with bubble level

Quick release camera plate with 60mm balance travel with 1/4" + pin, 1/4" and 3/8" screws

Serrated handle clamp wear washer

2-position selectable counterbalance system for payloads 2-5kg

Accessory mount option

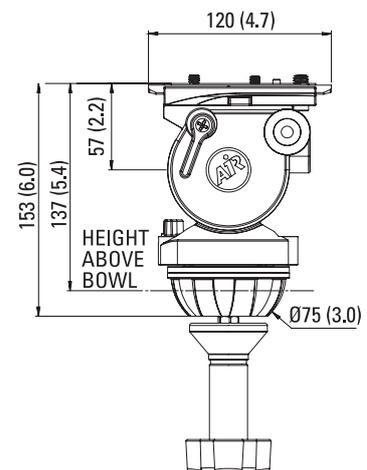
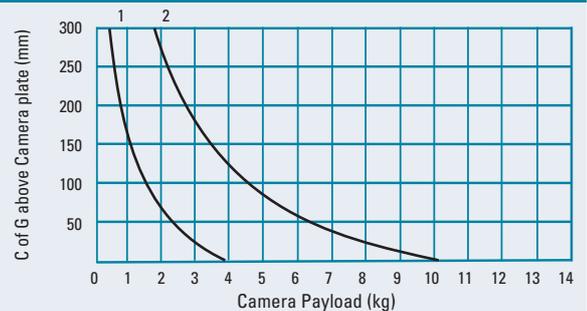
Removable ball level stud for mounting to flat bases, Sliders & Solopod



### Specifications -1042

Weight	1.4kg (3.0lbs)
Payload range	2-5kg (4.4-11lbs)
Pan-tilt drag	Fluid drag, temperature resistant
Counterbalance	2 selectable positions
Pan-tilt locks	Positive lock calliper brake system
Tilt range	+ 90 / -75°
Pan range	360°
Camera platform	Quick release, 60mm balance travel with 1/4" + pin, 1/4" and 3/8" screws with spare screw mounting points on head
Sliding range	60mm (2.4")
Mounting base	Ø75mm (2.9") ball levelling
Height above bowl	137mm (5.4")
Pan handle	681 Fixed length 390mm (15.4")
Temperature range	-40° to +65°C (-40° to +149°F)

### Counterbalance Performance



# Systems AIR

## 3001

### System AIR Solo 75-2 (alloy)



2-5kg  
4.4-11lbs



4.8kg  
10.7lbs



371-1762mm  
14.6-69.4"



837mm  
33"



#### Components:

1042	AIR fluid head
1630	Solo 75 2-stage tripod (alloy)
682	Pan handle - fixed with clamp
2095	AIR tripod bag

## 3005

### System AIR Solo 75-2 (carbon fibre)



2-5kg  
4.4-11lbs



4.4kg  
10.0lbs



371-1751mm  
14.6-68.9"



831mm  
32.7"



#### Components:

1042	AIR fluid head
1501	Solo 75 2-stage tripod (carbon fibre)
682	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
2095	AIR tripod bag

## 3010

### System AIR Solo 75-3 (carbon fibre)



2-5kg  
4.4-11lbs



5.0kg  
11.1lbs



357 - 2007mm  
14.1 - 79.0"



822mm  
32.4"



#### Components:

1042	AIR fluid head
2001	Solo 75 3-stage tripod (carbon fibre)
682	Pan handle - fixed with clamp
2095	AIR tripod bag
1520	Solo shoulder strap (Aircell)

## 3015

### System AIR Toggle LW (alloy)

with 835 DS tripod spreader + 550 feet



2-5kg  
4.4-11lbs



5.0kg  
11.1lbs



757-1467mm  
29.8-57.6"



967mm  
38.1"



#### Components:

1042	AIR fluid head
440	Toggle 75 LW tripod (alloy)
682	Pan handle - fixed with clamp
835	DS tripod spreader
550	Rubber feet (set of 3)
554	Shoulder strap (padded)
3512	Softcase 1-stage

\*System weights do not include the weight of the bag



### AIR System Comparison Chart

CAT	Components:	3001	3005	3010	3015
1042	AIR fluid head	•	•	•	•
1204	Camera plate with 1/4" & 3/8" screws + 1/4" screw & pin	•	•	•	•
681	Pan handle - fixed with clamp	•	•	•	•
1630	Solo 75 2-stage tripod (alloy)	•			
1501	Solo 75 2-stage tripod (carbon fibre)		•		
2001	Solo 75 3-stage tripod (carbon fibre)			•	
835	DS tripod spreader				•
440	Toggle 75 LW tripod (alloy)				•
2095	AIR tripod bag	•	•	•	
1520	Solo shoulder strap (Aircell)		•	•	
3512	Softcase 1-stage				•
550	Rubber feet (set of 3)				•
554	Shoulder strap (padded)				•

### Accessories

2092	1/4" Accessory adaptor
1204	Additional camera plate with 1/4" & 3/8" screws + 1/4" screw & pin
682	Additional pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
554	Shoulder strap (padded)
394	Solo dolly



# 182 DS10 FLUID HEAD



## THE LIGHTWEIGHT PROFESSIONAL CHOICE

The DS10 fluid head has earned a reputation for providing professional fluid drag movement for camera operators working solo in the field. DS10 is an all in one solution for payloads up to 5kg (11lbs).

Whether you are in the field or configured for production use, the dual position counterbalance plus 60mm camera plate travel enables quick and easy balancing in both standard and accessorised camera configurations.

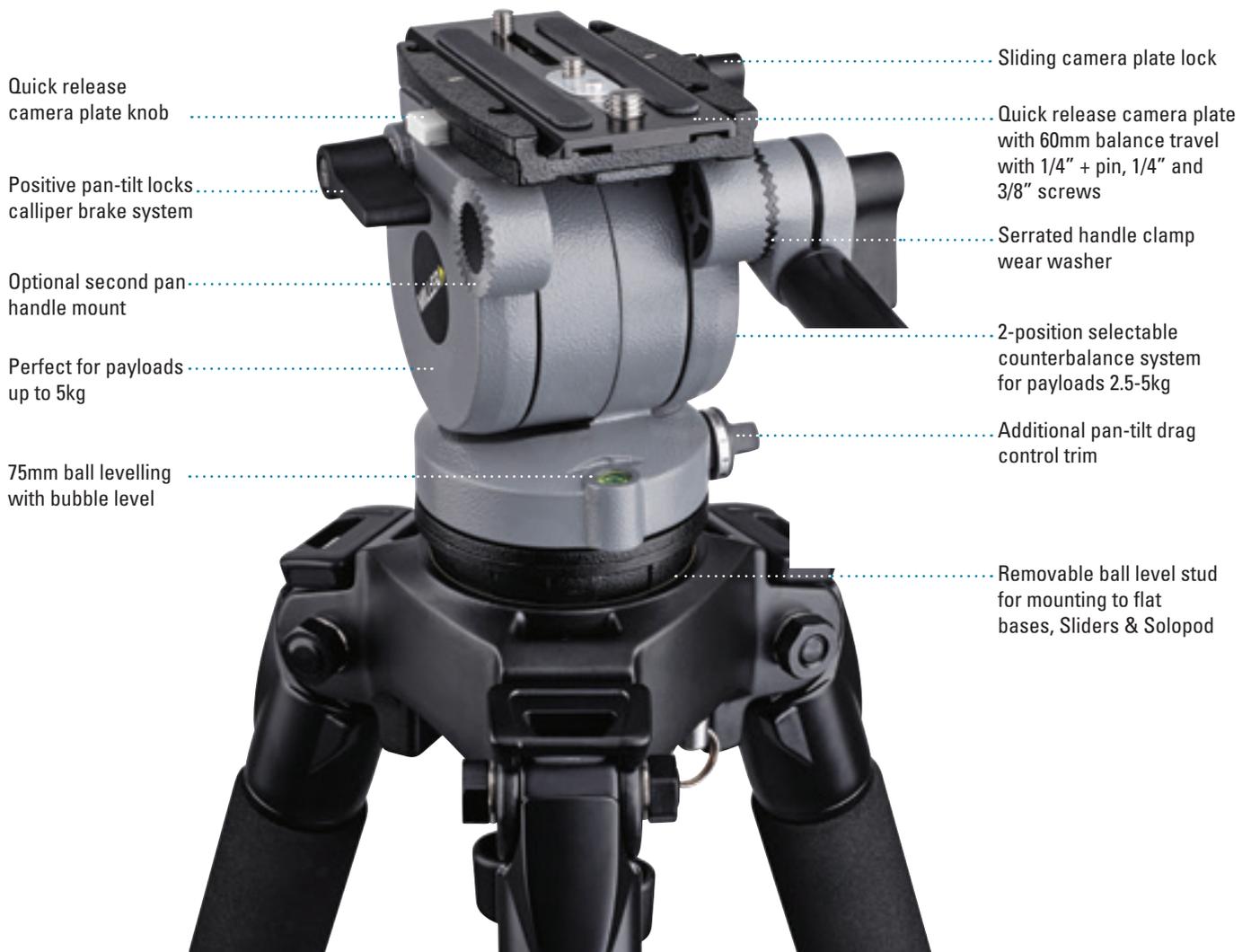
Constructed of lightweight high-strength die-cast alloy and rigid composite polymers and featuring precision ball bearing supported pan and tilt movements, DS10 is extremely durable and robust delivering silky smooth pan-tilt fluid actions to match camera payloads up to 5kg (11lbs).

DS10 fluid drag system is uniquely designed to employ smooth starts and soft stops technology with no variation in performance over a wide range of temperatures and environments.

DS10 is a heavy duty performer that will deliver good dependable results for many years. It meets the demands of professional storytellers and comes with the reliability and **"THE RIGHT FEEL"** that are the hallmarks of every Miller product.

## Features

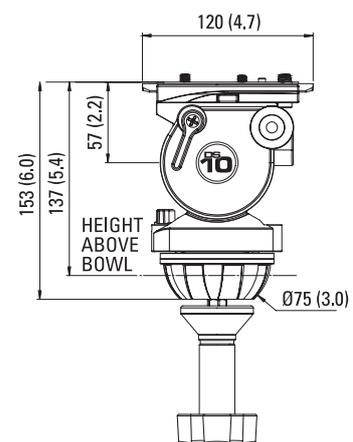
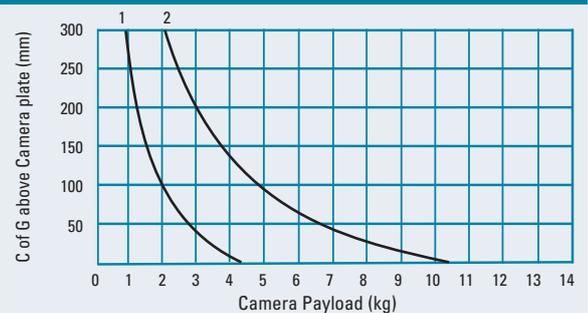
- Compact, lightweight, dependable.
- 2 selectable positions of counterbalance.
- Perfect for camera payloads to 2.5-5kg (5.5-11lbs).
- Unique, reliable fluid drag technology delivering smooth starts, soft stops pans-tilt actions.
- Consistent fluid drag performance in extreme environments.
- Precision ball bearing mounted pan-tilt movement.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Quick release, 60mm balance travel camera plate with 1/4" screw + pin, 1/4" and 3/8" screws.
- Robust construction for rugged outdoor shooting conditions, built for endurance.
- Removable ball level stud for flat base mounting (Sliders) with 3/8" screw hole.
- Optional second pan handle mount.
- 3 year warranty.



### Specifications -182

Weight	1.5kg (3.3lbs)
Payload range	2.5-5kg (5.5-11lbs)
Pan-tilt drag	Fluid drag, temperature resistant
Counterbalance	2 selectable positions
Pan-tilt locks	Positive lock calliper brake system
Tilt range	+ 90° / -75°
Pan range	360°
Camera platform	Quick release, 60mm balance travel with 1/4" + pin, 1/4" and 3/8" screws with spare screw mounting points on head
Sliding range	60mm (2.4")
Mounting base	Ø75mm (2.9") ball level
Height above bowl	137mm (5.4")
Pan handle	681 Fixed length 390mm (15.4")
Temperature range	-40° to +65°C (-40° to +149°F)

### Counterbalance Performance



## 828

### System DS10 Toggle LW (alloy)

with 835 DS tripod spreader + 550 feet



2.5-5kg  
5.5-11lbs



5.0kg  
11.1lbs



757-1467mm  
29.8-57.6"



967mm  
38.1"



## 1511

### System DS10 Solo 75-2 (carbon fibre)



2.5-5kg  
5.5-11lbs



4.5kg  
10.0lbs



371-1751mm  
14.6-68.9"



831mm  
32.7"



#### Components:

182	DS10 fluid head
440	Toggle 75 1-stage tripod (alloy)
835	DS tripod spreader
550	Rubber feet (set of 3)
681	Pan handle - fixed with clamp
3512	Softcase 1-stage
554	Shoulder strap (padded)

#### Components:

182	DS10 fluid head
1501	Solo 75 2-stage tripod (carbon fibre)
681	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3516	Solo 75 2-stage tripod bag

## 1640

### System DS10 Solo 75-2 (alloy)



2.5-5kg  
5.5-11lbs



4.8kg  
10.7lbs



371-1762mm  
14.6-69.4"



837mm  
33"



#### Components:

182	DS10 fluid head
1630	Solo 75 2-stage tripod (alloy)
681	Pan handle - fixed with clamp
3516	Solo 75 2-stage tripod bag

\*System weights do not include the weight of the bag



### DS10 System Comparison Chart

CAT	Components:	828	1640	1511
182	DS10 fluid head	•	•	•
1204	Camera plate with 1/4" & 3/8" screws + 1/4" screw & pin	•	•	•
681	Pan handle - fixed with clamp	•	•	•
440	Toggle 75 1-stage tripod (alloy)	•		
1630	Solo 75 2-stage tripod (alloy)		•	
1501	Solo 75 2-stage tripod (carbon fibre)			•
835	DS tripod spreader	•		
550	Rubber feet (set of 3)	•		
1520	Solo shoulder strap (Aircell)			•
554	Shoulder strap (padded)	•		
3516	Solo 75 2-stage tripod bag		•	•
3512	Softcase 1-stage	•		

### Accessories

1204	Additional camera plate with 1/4" & 3/8" screws + 1/4" screw & pin
681	Additional pan handle - fixed with clamp
378	Ø100-75mm tripod bowl adaptor
1520	Solo shoulder strap (Aircell)
394	Solo dolly
390	MD pro dolly
391	LW pro dolly

# 184 DS20 FLUID HEAD



## MULTIFUNCTIONAL LIGHTWEIGHT FLEXIBILITY

The DS20 provides a perfect lightweight solution for those wanting to use larger cameras or for additional on-board accessories. An economical solution for payloads up to 10kg (22lbs).

Whether you are in the field or configured for small studio use, the dual position counterbalance plus 60mm camera plate travel enables quick and easy balancing in both standard and accessorised camera configurations. Whatever your application the DS20 will impress your clients.

Constructed of lightweight high-strength die-cast alloy and rigid composite polymers and featuring precision ball bearing supported pan and tilt movements, DS20 is extremely durable and robust delivering silky smooth pan-tilt fluid actions to match camera payloads up to 10kg (22lbs).

DS20 fluid drag system is uniquely designed to employ smooth start and soft stop technology with no variation in performance over a wide range of temperatures and environments.

DS20 is a lightweight heavy duty choice that will deliver good dependable results for many years. It meets the demands of professional storytellers and comes with the reliability and **"THE RIGHT FEEL"**.

## Features

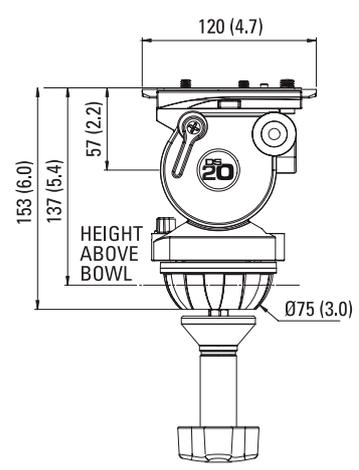
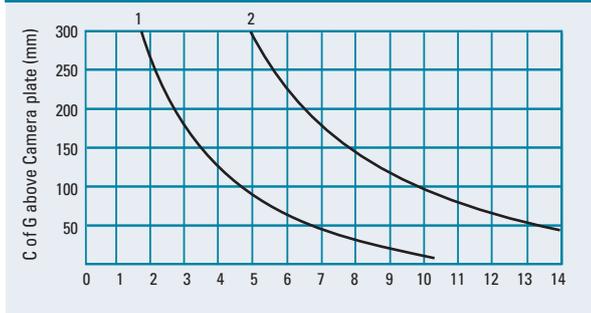
- Compact, lightweight and a hi-performer.
- 2 selectable positions of counterbalance.
- Perfect for camera payloads to 5-10kg (11-22lbs).
- Unique, reliable fluid drag technology delivering smooth starts, soft stops pans-tilt actions.
- Consistent fluid drag performance in extreme environments.
- Precision ball bearing mounted pan-tilt movement.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Quick release, 60mm balance travel camera plate with 1/4" screw + pin, 1/4" and 3/8" screws
- Robust construction for rugged outdoor shooting conditions, built for endurance.
- Removable ball level stud for flat base mounting (Sliders) with 3/8" screw hole.
- Optional second pan handle mount.
- 3 year warranty.



### Specifications -184

Weight	1.5kg (3.3lbs)
Payload range	5-10kg (11-22lbs)
Pan-tilt drag	Fluid drag, temperature resistant
Counterbalance	2 selectable positions
Pan-tilt locks	Positive lock calliper brake system
Tilt range	+ 90° / -75°
Pan range	360°
Camera platform	Quick release sliding camera plate with 1/4" + pin and 1/4" and 3/8" screws
Sliding range	60mm (2.4")
Mounting base	Ø75mm (2.9") ball levelling
Height above bowl	137mm (5.4")
Pan handle	681 Fixed length 390mm (15.4")
Temperature range	-40° to +65°C (-40° to +149°F)

### Counterbalance Performance



# Systems DS20

**848**

**System DS20 Toggle 2-stage (alloy)**

with 411 On ground spreader



5-10kg  
11-22lbs



5.9kg  
13.1lbs



527-1697mm  
20.7-66.8"



827mm  
32.6"



**Components:**

184	DS20 fluid head
420G	Toggle 75 2-stage tripod (alloy)
411	On ground spreader
681	Pan handle - fixed with clamp
554	Shoulder strap (padded)
3514	Soft case 2-stage

**850**

**System DS20 Toggle 2-stage (alloy)**

with 508 Above ground spreader + 550 feet



5-10kg  
11-22lbs



5.8kg  
12.9lbs



527-1667mm  
20.7-65.6"



827mm  
32.6"



**Components:**

184	DS20 fluid head
420	Toggle 75 2-stage tripod (alloy)
508	Above ground spreader
550	Rubber feet (set of 3)
681	Pan handle - fixed with clamp
554	Shoulder strap (padded)
3514	Soft case 2-stage

**1514**

**System DS20 Solo 75-2 (carbon fibre)**



5-10kg  
11-22lbs



4.5kg  
10.0lbs



371-1751mm  
14.6-68.9"



831mm  
32.7"



**Components:**

184	DS20 fluid head
1501	Solo 75 2-stage tripod (carbon fibre)
681	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3516	Solo 75 2-stage tripod bag

**1643**

**System DS20 Solo 75-2 (alloy)**



5-10kg  
11-22lbs



4.8kg  
10.7lbs



371-1762mm  
14.6-69.4"



837mm  
33"



**Components:**

184	DS20 fluid head
1630	Solo 75 2-stage tripod (alloy)
681	Pan handle - fixed with clamp
3516	Solo 75 2-stage tripod bag

\*System weights do not include the weight of the bag



### DS20 System Comparison Chart

CAT	Components:	848	850	1643	1514
184	DS20 fluid head	•	•	•	•
1204	Camera plate with 1/4" & 3/8" screws + 1/4" screw & pin	•	•	•	•
681	Pan handle - fixed with clamp	•	•	•	•
420	Toggle 75 2-stage tripod (alloy)		•		
420G	Toggle 75 2-stage tripod (alloy)	•			
1630	Solo 75 2-stage tripod (alloy)			•	
1501	Solo 75 2-stage tripod (carbon fibre)				•
411	On ground spreader	•			
508	Above ground spreader		•		
550	Rubber feet (set of 3)		•		
1520	Solo shoulder strap (Aircell)				•
554	Shoulder strap (padded)	•	•		
3516	Solo 75 2-stage tripod bag			•	•
3514	Soft case 2-stage	•	•		

### Accessories

1204	Additional camera plate with 1/4" & 3/8" screws + 1/4" screw & pin
681	Additional pan handle - fixed with clamp
378	Ø100-75mm tripod bowl adaptor
1520	Solo shoulder strap (Aircell)
394	Solo dolly
390	MD pro dolly
391	LW pro dolly

# 1090 CX2 FLUID HEAD



## VERSATILE, LIGHT AND AFFORDABLE

CX2 is an exceptional ball levelling fluid head designed for "on the go" creative professionals needing a versatile and affordable solution with uncompromised performance. Whether you shoot with a mirrorless camera, DSLR, mid-sized cine-rig or an ENG camera, CX2 is capable of balancing payloads from 0kg to 8kg. It features advanced precision fluid drag, intuitive controls, and fast set-up.

The CX2 employs CB Plus™ technology providing 16 positions of counterbalance and, with 3+0 settings of Miller's unrivalled fluid drag coupled with 60mm of camera plate travel, you can easily select the perfect set-up to match your configuration for ultimate camera control.

Constructed of lightweight high-strength die-cast alloy and tough composite polymers and featuring precision ball bearings Miller have combined robust engineering with silk smooth pan and tilt camera movements. Built for extreme conditions the CX2 performs consistently over a wide range of temperatures and environments giving you confidence when out on a shoot.

Versatile and light weight, CX2 makes a great choice for applications such as news gathering, documentary, wildlife and filmmaking. The CX2 meets the demands for reliability and "THE RIGHT FEEL" that are hallmarks of Miller, enabling you to tell your story.

## Features

- Compact, light and versatile.
- 75mm ball levelling.
- Perfect for payloads to 0-8kg (17.6lbs).
- 15+0 CB Plus selectable counterbalance positions.
- Ergonomically located CB Plus switch.
- 3+0 selectable positions of fluid pan and tilt drag.
- Positive selection radial ring controls.
- Illuminated bubble level.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Side loading, 60mm balance travel camera plate with 1/4" and 3/8" screws.
- Robust construction for rugged outdoor shooting conditions.
- Side mounting point for viewfinders and accessories.
- Optional second pan handle mount.
- 3 year warranty.



Positive pan-tilt locks  
calliper brake system

Sliding camera plate lock

Quick release, side load  
camera plate sliding  
range 60mm (2.4")

3 plus zero positions  
of fluid tilt drag

16 selectable positions  
of counterbalance (15+0)

Accessory mounting adaptor  
on both sides of head

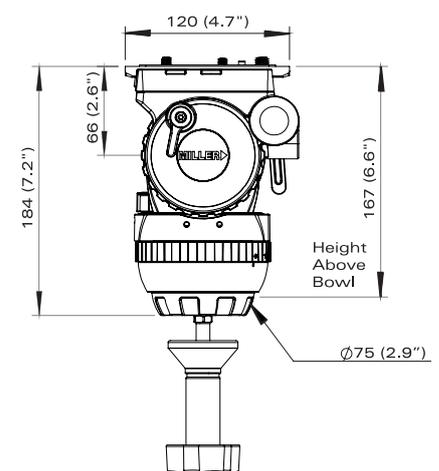
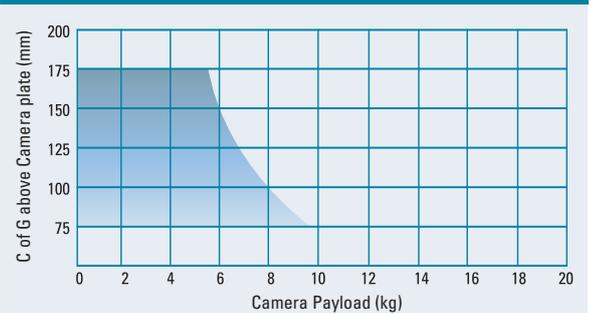
Illuminated bubble level

3 plus zero positions  
of fluid pan drag

### Specifications -1090

Weight	2.3kg (5.1lbs)
Payload range	0-8kg (0-17.6lbs)
Pan-tilt drag	3 selectable fluid drag positions + 0
Counterbalance	16 selectable positions (15+0)
Pan-tilt locks	Positive lock caliper brake system
Tilt range	+90° / -75°
Pan range	360°
Camera platform	Quick release, side load camera plate
Sliding range	60mm (2.4")
Mounting base	Ø75mm (2.9") ball levelling
Height above bowl	167mm (6.6")
Illumination	Bubble level
Pan handle	Fixed 390mm (15.4")
Temperature range	-40° to +65° C (-40° to +149° F)

### Counterbalance Performance



# Systems CX2

## 3702

### System CX2 Toggle LW

with 835 DS tripod spreader + 550 feet



0-8kg  
0-17.6lbs



5.9kg  
(13.0lbs)



790-1500mm  
31.1-59"



1000mm  
39.4"



#### Components:

1090	CX2 fluid head
440	Toggle 75 LW tripod (alloy)
835	DS tripod spreader
679	Pan handle - fixed with clamp
550	Rubber feet (set of 3)
554	Shoulder strap (padded)
3512	Softcase 1-stage

## 3704

### System CX2 Toggle 2-stage (alloy)

with 411 On ground spreader



0-8kg  
0-17.6lbs



6.8kg  
(14.8lbs)



560-1730mm  
22-68.1"



860mm  
33.9"



#### Components:

1090	CX2 fluid head
420G	Toggle 75 2-stage tripod (alloy)
411	On ground spreader
679	Pan handle - fixed with clamp
554	Shoulder strap (padded)
3514	Soft case 2-stage

\*System weights do not include the weight of the bag

## 3705

### System CX2 Toggle 2-stage (alloy)

with 508 Above ground spreader + 550 feet



0-8kg  
0-17.6lbs



6.7kg  
(14.8lbs)



560-1730mm  
22-68.1"



860mm  
33.9"



#### Components:

1090	CX2 fluid head
420	Toggle 75 2-stage tripod (alloy)
508	Above ground spreader
679	Pan handle - fixed with clamp
550	Rubber feet (set of 3)
554	Shoulder strap (padded)
3514	Soft case 2-stage

## 3710

### System CX2 Solo 75-2 (alloy)



0-8kg  
0-17.6lbs



5.9kg  
(13.0lbs)



404-1795mm  
15.9-70.7"



870mm  
34.3"



#### Components:

1090	CX2 fluid head
1630	Solo 75 2-stage tripod (alloy)
679	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3514	Soft case 2-stage

**3712**  
System CX2 Solo 75-2 (carbon fibre)



0-8kg  
0-17.6lbs



5.4kg  
(11.9lbs)



404-1784mm  
15.9-70.2"



864mm  
34"



**Components:**

1090	CX2 fluid head
1501	Solo 75 2-stage tripod (carbon fibre)
679	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3514	Soft case 2-stage

**3714**  
System CX2 Solo 75-3 (carbon fibre)



0-8kg  
0-17.6lbs



5.9kg  
(13.0lbs)



390-2040mm  
15.4-80.3"



828mm  
32.6"



**Components:**

1090	CX 2 fluid head
2001	Solo 75 3-stage tripod (carbon fibre)
679	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3514	Soft case 2-stage

**CX2 System Comparison Chart**

CAT	Components:	3702	3704	3705	3710	3712	3714
1090	CX2 fluid head	•	•	•	•	•	•
1205	Camera plate with 1/4" & 3/8" screws	•	•	•	•	•	•
679	Pan handle - fixed with clamp	•	•	•	•	•	•
420	Toggle 75 2-stage tripod (alloy)			•			
420G	Toggle 75 2-stage tripod (alloy)		•				
440	Toggle 75 LW 1-stage tripod (alloy)	•					
1630	Solo 75 2-stage tripod (alloy)				•		
1501	Solo 75 2-stage tripod (carbon fibre)					•	
2001	Solo 75 3-stage tripod (carbon fibre)						•
411	On ground spreader		•				
508	Above ground spreader			•			
835	DS tripod spreader	•					
550	Rubber feet (set of 3)	•		•			
1520	Solo shoulder strap (Aircell)		•	•	•	•	•
554	Shoulder strap (padded)	•					
3512	Softcase 1-stage	•					
3514	Soft case 2-stage		•	•	•	•	•

**Accessories:**

1204	Camera plate with 1/4" & 3/8" screws + 1/4" screw & pin
858	Offset camera plate with 2 x 3/8" screws
378	Ø100-75mm tripod bowl adaptor
679	Pan handle - fixed with clamp
696	Pan handle - telescopic with clamp
1206X	Sliding plate assembly (Mini Euro)
1210X	Sliding plate assembly (Euro)
1218	Accessory mounting bracket
1217	Accessory adaptor 1/4", 3/8" holes to suit 1218
394	Solo dolly
390	MD pro dolly
391	LW pro dolly

# 1092 CX6 FLUID HEAD



## POWERFUL, LIGHT AND MULTIFUNCTIONAL

CX6 is a superb 75mm ball levelling fluid head designed to adapt to your shooting needs for camera rigs from 0kg to 12kg. Whether it's ENG, soft news, documentary or filmmaking, the CX6 is a versatile, powerful head with outstanding performance. With advanced fluid drag, radial control rings and quick release side loading platform the CX6 is fast to set up, smooth and precise.

The CX6 employs CB Plus™ technology providing 16 positions of counterbalance and, with 3+0 levels of Miller's unrivalled fluid drag, 60mm of camera plate travel, you can quickly tune to your tripod configuration for perfect camera control.

Constructed of lightweight high-strength die-cast alloy and tough composite polymers, featuring precision ball bearings Miller has combined robust engineering with silk smooth pan and tilt camera movements. Built for extreme conditions the CX6 performs consistently over a wide range of temperatures and environments giving you confidence when you are working.

Powerful, light and versatile, CX6 makes a great choice for a wide range of rigs from DSLR and camcorders to cine and broadcast cameras. The CX6 meets the demands for reliability and **"THE RIGHT FEEL"** that are hallmarks of Miller, enabling you to tell your story.

## Features

- Powerful, light and multifunctional.
- Perfect for payloads to 0-12kg (26.4lbs).
- 15+0 CB Plus selectable counterbalance positions.
- Ergonomically located CB Plus switch.
- 3+0 selectable positions of fluid pan and tilt drag.
- Positive selection radial ring controls.
- Illuminated bubble level.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Side loading, 60mm balance travel camera plate with 1/4" and 3/8" screws.
- Robust construction for rugged outdoor shooting conditions.
- Side mounting point for viewfinders and accessories.
- Optional second pan handle mount.
- 3 year warranty.



Positive pan-tilt locks  
calliper brake system

Sliding camera plate lock

Quick release, side load  
camera plate sliding  
range 60mm (2.4")

3 plus zero positions  
of fluid tilt drag

16 selectable positions  
of counterbalance (15+0)

Accessory mounting adaptor  
on both sides of head

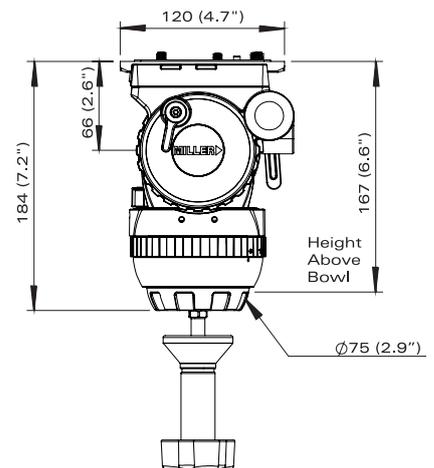
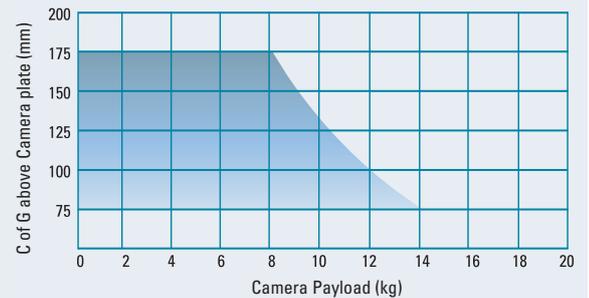
Illuminated bubble level

3 plus zero positions  
of fluid pan drag

### Specifications - 1092

Weight	2.3kg (5.1lbs)
Payload range	0-12kg (0-26.4lbs)
Pan-tilt drag	3 selectable fluid drag positions + 0
Counterbalance	16 selectable positions (15+0)
Pan-tilt locks	Positive lock caliper brake system
Tilt range	+ 90° / -75°
Pan range	360°
Camera platform	Quick release, side load camera plate
Sliding range	60mm (2.4")
Mounting base	Ø75mm (2.9") ball levelling
Height above bowl	167mm (6.6")
Illumination	Bubble level
Pan handle	Fixed 390mm (15.4")
Temperature range	-40° to +65° C (-40° to +149° F)

### Counterbalance Performance



# Systems CX6

## 3720

**System CX6 Toggle 2-stage (alloy)**  
with 411 On ground spreader



0-12kg  
0-26.4lbs



6.8kg  
(15.0lbs)



560-1730mm  
22-68.1"



860mm  
33.9"



### Components:

1092	CX6 fluid head
420G	Toggle 75 2-stage tripod (alloy)
411	On ground spreader
679	Pan handle - fixed with clamp
554	Shoulder strap (padded)
3514	Soft case 2-stage

## 3721

**System CX6 Toggle 2-stage (alloy)**  
with 508 Above ground spreader + 550 feet



0-12kg  
0-26.4lbs



6.7kg  
(14.8lbs)



560-1730mm  
22-68.1"



860mm  
33.9"



### Components:

1092	CX6 fluid head
420	Toggle 75 2-stage tripod (alloy)
508	Above ground spreader
550	Rubber feet (set of 3)
679	Pan handle - fixed with clamp
554	Shoulder strap (padded)
3514	Soft case 2-stage

## 3726

**System CX6 Solo 75-2 (alloy)**



0-12kg  
0-26.4lbs



5.9kg  
(13.0lbs)



404-1795mm  
15.9-70.7"



870mm  
34.3"



### Components:

1092	CX6 fluid head
1630	Solo 75 2-stage tripod (alloy)
679	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3514	Soft case 2-stage

## 3728

**System CX6 Solo 75-2 (carbon fibre)**



0-12kg  
0-26.4lbs



5.4kg  
(11.9lbs)



404-1784mm  
15.9-70.2"



870mm  
34.3"



### Components:

1092	CX6 fluid head
1501	Solo 75 2-stage tripod (carbon fibre)
679	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3514	Soft case 2-stage

\*System weights do not include the weight of the bag

**3730**  
**System CX6 Solo 75-3 (carbon fibre)**



0-12kg  
 0-26.4lbs



5.9kg  
 (13.0lbs)



390-2040mm  
 15.4-80.3"



828mm  
 32.6"



**Components:**

1092	CX6 fluid head
2001	Solo 75 3-stage tripod (carbon fibre)
679	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3514	Soft case 2-stage

**CX6 System Comparison Chart**

CAT	Components:	3720	3721	3726	3728	3730
1092	CX6 fluid head	•	•	•	•	•
1205	Camera plate with 1/4" & 3/8" screws	•	•	•	•	•
679	Pan handle - fixed with clamp	•	•	•	•	•
420	Toggle 75 2-stage tripod (alloy)		•			
420G	Toggle 75 2-stage tripod (alloy)	•				
1630	Solo 75 2-stage tripod (alloy)			•		
1501	Solo 75 2-stage tripod (carbon fibre)				•	
2001	Solo 75 3-stage tripod (carbon fibre)					•
411	On ground spreader	•				
508	Above ground spreader		•			
550	Rubber feet (set of 3)		•			
1520	Solo shoulder strap (Aircell)			•	•	•
554	Shoulder strap (padded)	•	•			
3514	Soft case 2-stage	•	•	•	•	•

**Accessories**

1204	Camera plate with 1/4" & 3/8" screws + 1/4" screw & pin
858	Offset camera plate with 2 x 3/8" screws
378	Ø100-75mm tripod bowl adaptor
679	Pan handle - fixed with clamp
696	Pan handle - telescopic with clamp
1206X	Sliding plate assembly (Mini Euro)
1210X	Sliding plate assembly (Euro)
1218	Accessory mounting bracket
1217	Accessory adaptor 1/4", 3/8" holes to suit 1218
394	Solo dolly
390	MD pro dolly
391	LW pro dolly

# 1093 CX8 FLUID HEAD



## COMPACT, UNCOMPROMISED PERFORMANCE

CX8 is the premium head in the 75mm ball levelling Compass<sup>x</sup> series. Designed for camera rigs from 0kg to 12kg, with CB Plus™ 16 balance positions and 5 levels of fluid drag, it sets the standard in professional compact camera supports.

A feature packed fluid head, CX8 is ideal for cinematic and documentary, where the payload and centre of gravity changes frequently due to lens or accessories swapping.

Constructed of lightweight high-strength die-cast alloy and tough composite polymers and featuring precision ball bearings Miller have combined robust engineering with silk smooth pan and tilt camera movements. Built for extreme conditions the CX8 performs consistently over a wide range of temperatures and environments giving you confidence when you are working.

The CX8 is a precise, smooth pan & tilt head for small to medium camera configurations for the creative professional. CX8 meets the demands for reliability and **“THE RIGHT FEEL”** that are hallmarks of Miller, enabling you to tell your story.

## Features

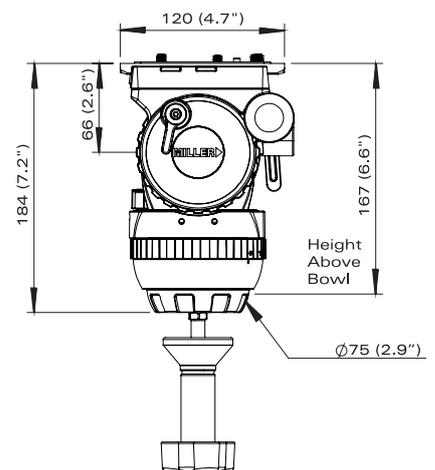
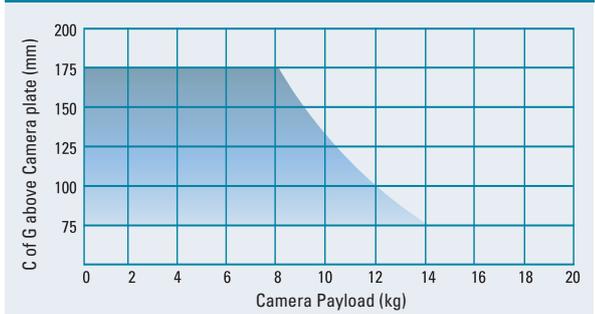
- Compact, uncompromised performance.
- Perfect for payloads to 0-12kg (26.4bs).
- 15+0 CB Plus selectable counterbalance positions.
- Ergonomically located CB Plus switch.
- 5+0 selectable positions of fluid pan and tilt drag.
- Positive selection radial ring controls.
- Illuminated bubble level.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Side loading, 60mm balance travel camera plate with 1/4" and 3/8" screws.
- Robust construction for rugged outdoor shooting conditions.
- Side mounting point for viewfinders and accessories.
- 3 year warranty.



### Specifications -1093

Weight	2.5kg (5.5lbs)
Payload range	0-12kg (0-26.4lbs)
Pan-tilt drag	5 selectable fluid drag positions + 0
Counterbalance	16 selectable positions (15+0)
Pan-tilt locks	Positive lock caliper brake system
Tilt range	+ 90° / -75°
Pan range	360°
Camera platform	Quick release, side load camera plate
Sliding range	60mm (2.4")
Mounting base	Ø75mm (2.9") ball levelling
Height above bowl	167mm (6.6")
Illumination	Bubble level
Pan handle	Fixed 390mm (15.4")
Temperature range	-40° to +65° C (-40° to +149° F)

### Counterbalance Performance



# Systems CX8

## 3736

**System CX8 Toggle 2-stage (alloy)**  
with 411 On ground spreader



0-12kg  
0-26.4lbs



6.9kg  
(15.2lbs)



570-1740mm  
22.4-68.5"



860mm  
33.9"



### Components:

1093	CX8 fluid head
420G	Toggle 75 2-stage tripod (alloy)
411	On ground spreader
679	Pan handle - fixed with clamp
554	Shoulder strap (padded)
3514	Soft case 2-stage

## 3737

**System CX8 Toggle 2-stage (alloy)**  
with 508 Above ground spreader + 550 feet



0-12kg  
0-26.4lbs



6.8kg  
(14.8lbs)



570-1740mm  
22.4-68.5"



860mm  
33.9"



### Components:

1093	CX8 fluid head
420	Toggle 75 2-stage tripod (alloy)
508	Above ground spreader
550	Rubber feet (set of 3)
679	Pan handle - fixed with clamp
554	Shoulder strap (padded)
3514	Soft case 2-stage

## 3742

**System CX8 Solo 75-2 (alloy)**



0-12kg  
0-26.4lbs



6.0kg  
(13.2lbs)



414-1805mm  
16.3-71.1"



870mm  
34.3"



### Components:

1093	CX8 fluid head
1630	Solo 75 2-stage tripod (alloy)
679	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3514	Soft case 2-stage

## 3744

**System CX8 Solo 75-2 (carbon fibre)**



0-12kg  
0-26.4lbs



5.5kg  
(12.2lbs)



414-1794mm  
16.3-70.6"



870mm  
34.3"



### Components:

1093	CX8 fluid head
1501	Solo 75 2-stage tripod (carbon fibre)
679	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3514	Soft case 2-stage

\*System weights do not include the weight of the bag

**3746**  
**System CX8 Solo 75-3 (carbon fibre)**



0-12kg  
 0-26.4lbs



6.0kg  
 (13.2lbs)



400-2050mm  
 15.7-80.7"



828mm  
 32.6"



**Components:**

1093	CX8 fluid head
2001	Solo 75 3-stage tripod (carbon fibre)
679	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3514	Soft case 2-stage

**CX8 System Comparison Chart**

CAT	Components:	3736	3737	3742	3744	3746
1093	CX8 20 fluid head	•	•	•	•	•
1205	Camera plate with 1/4" & 3/8" screws	•	•	•	•	•
679	Pan handle - fixed with clamp	•	•	•	•	•
420	Toggle 75 2-stage tripod (alloy)		•			
420G	Toggle 75 2-stage tripod (alloy)	•				
1630	Solo 75 2-stage tripod (alloy)			•		
1501	Solo 75 2-stage tripod (carbon fibre)				•	
2001	Solo 75 3-stage tripod (carbon fibre)					•
411	On ground spreader	•				
508	Above ground spreader		•			
550	Rubber feet (set of 3)		•			
1520	Solo shoulder strap (Aircell)			•	•	•
554	Shoulder strap (padded)	•	•			
3514	Soft case 2-stage	•	•	•	•	•

**Accessories**

1204	Camera plate with 1/4" & 3/8" screws + 1/4" screw & pin
858	Offset camera plate with 2 x 3/8" screws
378	Ø100-75mm tripod bowl adaptor
679	Pan handle - fixed with clamp
696	Pan handle - telescopic with clamp
1206X	Sliding plate assembly (Mini Euro)
1210X	Sliding plate assembly (Euro)
1218	Accessory mounting bracket
1217	Accessory adaptor 1/4", 3/8" holes to suit 1218
394	Solo dolly
390	MD pro dolly
391	LW pro dolly

# 100mm series

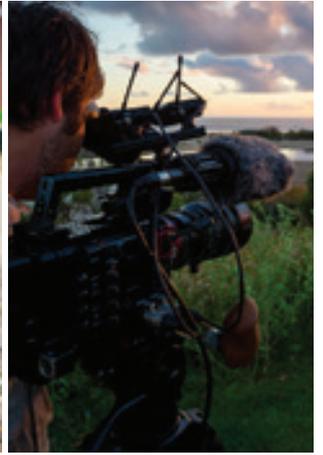
## Fluid head range

The Miller 100mm fluid head range, including Compass<sup>x</sup> and Arrow<sup>x</sup>, has been designed for fast-paced ENG, EFP, documentary and OB productions. The 100mm range of fluid heads provides unsurpassed fluid drag performance and precise counterbalance control for camera payloads ranging from 0-25kg (0-55lbs).

Precision engineered and built to withstand the world's most challenging environments, the 100mm range is a class leader for versatility and portability. The wide range of pan and tilt drag settings enable shots ranging from fast action to long slow heavy pans make 100mm range perfect for even the most demanding location shot.

## At a glance

- Authentic Miller fluid drag system with smooth start and soft stop technology & balanced diagonal transitions
- Compact, lightweight and versatile
- Payloads between 0-25kg (0-55lbs)
- Quick release sliding camera platforms with good balance travel
- + 90° to -75° tilt range
- Easy to operate illuminated pan-tilt drag controls
- 100mm ball levelling with illuminated bubble level
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance
- Robust construction for rugged outdoor shooting conditions.
- Water and dust resistant



### *Randall Brown with Filmmaker For A Cause*

*“There were times when we had to shoot through freezing temperatures, heavy rain and high winds, which are all weather conditions that, in the past, have caused us a great deal of equipment troubles,” says Brown.*

*“But with the Arrow 55 System, weather was never an issue. The fluid head is sealed, which means that rain never got into the movement and did not hinder our shots. Additionally, the inline carry handles allowed us the flexibility to quickly grab the entire tripod assembly and speedily carry it to different shooting locations. Though these all seem like small things, they add up to be big advantages.”*

# 1096 CX10 FLUID HEAD



## AFFORDABLE, STABLE AND ROBUST

CX10 is a robust 100mm ball levelling fluid head designed for users needing the stability that comes with 100mm tripods, cost effectively. Whether the job requires a mirrorless camera, DSLR, cine-rig or a broadcast camera, the CX10 is capable of balancing from 0kg to 12kg. It features advanced precision fluid drag, fast set-up and professional performance.

CX10 employs CB Plus™ technology providing 16 positions of counterbalance and 5+0 levels of pan and tilt settings of Miller's fluid drag with 60mm of camera plate travel, enabling you to easily select the perfect settings to match your configuration for ultimate camera control.

Constructed of lightweight high-strength die-cast alloy and tough composite polymers and featuring precision ball bearings Miller have combined robust engineering with silk smooth pan and tilt camera movements. Built for extreme conditions the CX2 performs consistently over a wide range of temperatures and environments giving you confidence when out on a shoot.

Affordable, stable and robust for heavier loads, CX10 makes a great choice for applications such as news gathering, documentary, wildlife and filmmaking. The CX10 meets the demands for reliability and **"THE RIGHT FEEL"** that are hallmarks of Miller, enabling you to tell your story.

## Features

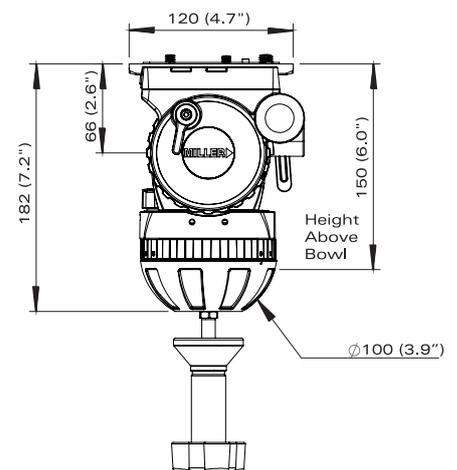
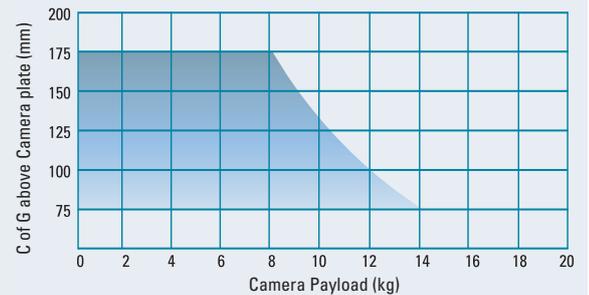
- Affordable, Stable, Robust.
- Perfect for payloads to 0-12kg (26.4bs).
- 15+0 CB Plus selectable counterbalance positions.
- Ergonomically located CB Plus switch.
- 5+0 selectable positions of fluid pan and tilt drag.
- Positive selection radial ring controls.
- Illuminated bubble level.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Side loading, 60mm balance travel camera plate with 1/4" and 3/8" screws.
- Robust construction for rugged outdoor shooting conditions.
- Side mounting point for viewfinders and accessories.
- Optional second pan handle mount.
- 3 year warranty.



### Specifications -1096

Weight	2.5kg (5.5lbs)
Payload range	0-12kg (0-26.4lbs)
Pan-tilt drag	5 selectable fluid drag positions + 0
Counterbalance	16 selectable positions (15+0)
Pan-tilt locks	Positive lock caliper brake system
Tilt range	+ 90° / -75°
Pan range	360°
Camera platform	Quick release, side load camera plate
Sliding range	60mm (2.4")
Mounting base	Ø100mm (3.9") ball levelling
Height above bowl	150mm (6.0")
Illumination	Bubble level
Pan handle	Fixed 390mm (15.4")
Temperature range	-40° to +65° C (-40° to +149° F)

### Counterbalance Performance



# Systems CX10

**3752**

**System CX10 Sprinter II 1-stage (alloy)**  
with 993 Mid level spreader + 475 feet



0-12kg  
0-26.4lbs



6.8kg  
(15.0lbs)



823-1583mm  
32.4-62.3"



993mm  
39.1"



**Components:**

1096	CX10 fluid head
1589	Sprinter II 1-stage tripod (alloy)
993	Mid level spreader
679	Pan handle - fixed with clamp
475	Rubber feet (set of 3)
3500	Arrowx softcase 1-stage

**3753**

**System CX10 Toggle 2-stage (alloy)**  
with 411 On ground spreader



0-12kg  
0-26.4lbs



7.2kg  
(15.9lbs)



543-1713mm  
21.4-67.4"



843mm  
33.2"



**Components:**

1096	CX10 fluid head
402G	Toggle 2-stage tripod (alloy)
411	On ground spreader
679	Pan handle - fixed with clamp
554	Shoulder strap (padded)
3514	Soft case 2-stage

**3756**

**System CX10 Toggle 2-stage (alloy)**  
with 508 Above ground spreader + 550 feet



0-12kg  
0-26.4lbs



6.9kg  
(15.2lbs)



543-1713mm  
21.4-67.4"



843mm  
33.2"



**Components:**

1096	CX10 fluid head
402	Toggle 2-stage tripod (alloy)
508	Above ground spreader
679	Pan handle - fixed with clamp
554	Shoulder strap (padded)
550	Rubber feet (set of 3)
3514	Soft case 2-stage

**3768**

**System CX10 Solo 100 3-stage (carbon fibre)**



0-12kg  
0-26.4lbs



6.1kg  
13.5lbs



373-2023mm  
14.7-79.6"



838mm  
33.0"



**Components:**

1096	CX10 fluid head
1505	Solo 100 3-stage tripod (carbon fibre)
1520	Solo shoulder strap (Aircell)
679	Pan handle - fixed with clamp
3514	Soft case 2-stage

\*System weights do not include the weight of the bag



### CX10 System Comparison Chart

CAT	Components:	3752	3753	3756	3768
1096	CX10 fluid head	•	•	•	•
1205	Camera plate with 1/4" & 3/8" screws	•	•	•	•
1589	Sprinter II 1-stage tripod (alloy)	•			
402G	Toggle 2-stage tripod (alloy)		•		
402	Toggle 2-stage tripod (alloy)			•	
1505	Solo 100 3-stage tripod (carbon fibre)				•
993	Mid level spreader	•			
411	On ground spreader		•		
508	Above ground spreader			•	
679	Pan handle - fixed with clamp	•	•	•	•
554	Shoulder strap (padded)		•	•	
1520	Solo shoulder strap (Aircell)				•
475	Rubber feet (set of 3)	•			
550	Rubber feet (set of 3)			•	
3500	Arrowx softcase 1-stage	•			
3514	Soft case 2-stage		•	•	•

### Accessories

1204	Camera plate with 1/4" & 3/8" screws + 1/4" screw & pin
858	Offset camera plate with 2 x 3/8" screws
679	Pan handle - fixed with clamp
696	Pan handle - telescopic with clamp
1206X	Sliding plate assembly (Mini Euro)
1210X	Sliding plate assembly (Euro)
1218	Accessory mounting bracket
1217	Accessory adaptor 1/4", 3/8" holes to suit 1218
394	Solo dolly
390	MD pro dolly
391	LW pro dolly

# 1098 CX18 FLUID HEAD



## PRECISE CONTROL FOR HEAVIER PAYLOADS

The CX18 is the premium fluid head in the Compass<sup>x</sup> series. Designed for the creative professionals needing a stable, higher capacity solution, it is capable of balancing from a broadcast down to a DSLR camera, thanks to CB Plus™ technology and Miller's precision fluid drag system.

The CX18 employs CB Plus™ technology providing 16 positions of counterbalance, 5+0 settings of Miller's fluid pan and tilt drag with 60mm of camera plate travel, enabling you to match your camera configuration to any shot.

Constructed of lightweight high-strength die-cast alloy and tough composite polymers and featuring precision ball bearings Miller have combined robust engineering with silk smooth pan and tilt camera movements. Built for extreme conditions the CX18 performs consistently over a wide range of temperatures and environments giving you confidence when out on a shoot.

Powerful and precise, CX18 makes a great choice for applications such as news gathering, documentary, wildlife and filmmaking. The CX18 meets the demands for reliability and **"THE RIGHT FEEL"** that are hallmarks of Miller, enabling you to tell your story.

## Features

- Compact, powerful and precise.
- Affordable, Stable, Robust.
- Perfect for payloads to 0-16kg (35.2bs).
- 15+0 CB Plus selectable counterbalance positions.
- Ergonomically located CB Plus switch.
- 5+0 selectable positions of fluid pan and tilt drag.
- Positive selection radial ring controls.
- Illuminated bubble level.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Side loading, 60mm balance travel camera plate with 1/4" and 3/8" screws.
- Robust construction for rugged outdoor shooting conditions.
- Side mounting point for viewfinders and accessories.
- Optional second pan handle mount.
- 3 year warranty.



Positive pan-tilt locks ..... calliper brake system

Quick release, side load camera plate sliding range 60mm (2.4")

5 plus zero positions ..... of fluid tilt drag

16 selectable positions of counterbalance (15+0)

Accessory mounting adaptor ..... on both sides of head

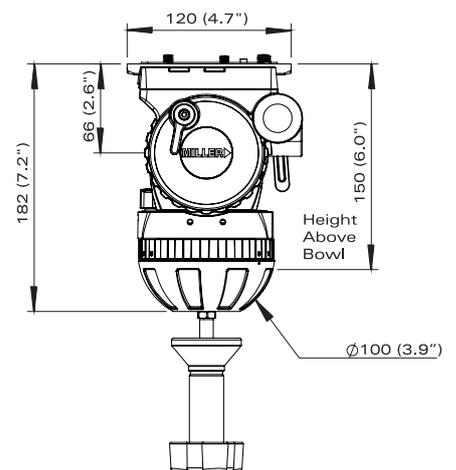
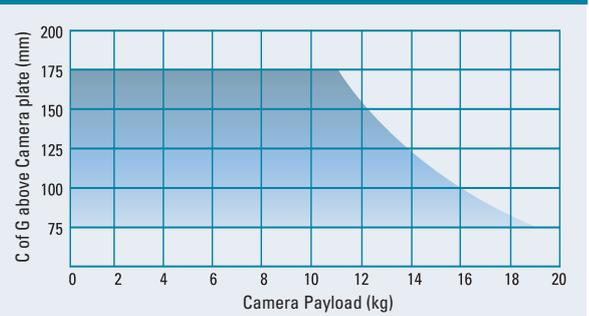
Illuminated bubble level

5 plus zero positions of fluid pan drag

### Specifications -1098

Weight	2.5kg (5.5lbs)
Payload range	0-16kg (0-35.2lbs)
Pan-tilt drag	5 selectable fluid drag positions + 0
Counterbalance	16 selectable positions (15+0)
Pan-tilt locks	Positive lock caliper brake system
Tilt range	+ 90° / -75°
Pan range	360°
Camera platform	Quick release, side load camera plate
Sliding range	60mm (2.4")
Mounting base	Ø100mm (3.9") ball levelling
Height above bowl	150mm (6.0")
Illumination	Bubble level
Pan handle	Fixed 390mm (15.4")
Temperature range	-40° to +65° C (-40° to +149° F)

### Counterbalance Performance



# Systems CX18

**3774**

**System CX18 Toggle 2-stage (alloy)**  
with 411 On ground spreader



0-16kg  
0-35.2lbs



7.0kg  
(15.4lbs)



553-1723mm  
22-68"



843mm  
33.2"



## Components:

1098	CX18 fluid head
402G	Toggle 2-stage tripod (alloy)
411	On ground spreader
679	Pan handle - fixed with clamp
554	Shoulder strap (padded)
3514	Soft case 2-stage

**3775**

**System CX18 Toggle 2-stage (alloy)**  
with 508 Above ground spreader + 550 feet



0-16kg  
0-35.2lbs



6.9kg  
(15.2lbs)



553-1723mm  
22-68"



843mm  
33.2"



## Components:

1098	CX18 fluid head
402	Toggle 2-stage tripod (alloy)
508	Above ground spreader
550	Rubber feet (set of 3)
679	Pan handle - fixed with clamp
554	Shoulder strap (padded)
3514	Soft case 2-stage

**3780**

**System CX18 Sprinter II 2-stage (carbon fibre)**  
with 993 Mid level spreader + 475 feet



0-16kg  
0-35.2lbs



7.3kg  
(16.1lbs)



603-1693mm  
23.7-66.6"



853mm  
33.6"



## Components:

1098	CX18 fluid head
1576	Sprinter II 2-stage tripod (carbon fibre)
993	Mid level spreader
475	Rubber feet (set of 3)
679	Pan handle - fixed with clamp
3502	Arrow <sup>x</sup> soft case 2-stage

**3790**

**System CX18 Solo 100 3-stage (carbon fibre)**



0-16kg  
0-35.2lbs



6.2kg  
(13.7lbs)



383-2033mm  
15.1-80"



838mm  
33.0"



## Components:

1098	CX18 fluid head
1505	Solo 100 3-stage tripod (carbon fibre)
679	Pan handle - fixed with clamp
1520	Solo shoulder strap (Aircell)
3502	Arrow <sup>x</sup> soft case 2-stage

\*System weights do not include the weight of the bag



### CX18 System Comparison Chart

CAT	Components:	3774	3775	3780	3790
1098	CX18 fluid head	•	•	•	•
1205	Camera plate with 1/4" & 3/8" screws	•	•	•	•
402	Toggle 2-stage tripod (alloy)		•		
402G	Toggle 2-stage tripod (alloy)	•			
1576	Sprinter II 2-stage tripod (carbon fibre)			•	
1505	Solo 100 3-stage tripod (carbon fibre)				•
411	On ground spreader	•			
508	Above ground spreader		•		
993	Mid level spreader			•	
475	Rubber feet (set of 3)			•	
550	Rubber feet (set of 3)		•		
679	Pan handle - fixed with clamp	•	•	•	•
1520	Solo shoulder strap (Aircell)				•
554	Shoulder strap (padded)	•	•		
3502	Arrow <sup>x</sup> soft case 2-stage			•	•
3514	Soft case 2-stage	•	•		

### Accessories:

1204	Camera plate with 1/4" & 3/8" screws + 1/4" screw & pin
858	Offset camera plate with 2 x 3/8" screws
679	Pan handle - fixed with clamp
696	Pan handle - telescopic with clamp
1206X	Sliding plate assembly (Mini Euro)
1210X	Sliding plate assembly (Euro)
1218	Accessory mounting bracket
1217	Accessory adaptor 1/4", 3/8" holes to suit 1218
394	Solo dolly
390	MD pro dolly
391	LW pro dolly

# 1072 ARROW<sup>x</sup> 3 FLUID HEAD



## THE LIGHTWEIGHT 100mm CHOICE FOR ENG

Following in the tradition and reputation of the world-renowned Arrow series, the all-new Arrow<sup>x</sup> 3 sets new dimensions in professional camera support, augmenting the power of expression of creative professionals.

Featuring a wide payload range, precision fluid drag and Miller's innovative 16 position CB Plus<sup>TM</sup> counterbalance system, Arrow<sup>x</sup> 3 delivers the flexibility, speed of set up and accuracy of shot, professionals expect and demand.

1-19kg (2.2-41.8lbs) payload range and 5 + 0 selectable pan-tilt fluid drag positions make Arrow<sup>x</sup> 3 ideal for news gathering and documentaries, enabling it to be used with a wide range of cameras, lenses and accessories.

CB Plus<sup>TM</sup> is an innovative sequential counterbalance design, taking traditional counter balancing a step forward, ahead of the rest, resulting in repeatable, accurate and rapid setup. CB Plus<sup>TM</sup> features eight larger counterbalance steps, allowing the user to get to their required counterbalance position quickly and efficiently. The CB Plus "one flick" switch conveniently located at the front of the head, adds a half step between each of the eight larger steps enabling counterbalance fine-tuning when required.

The new Arrow<sup>x</sup> 3 comes with the reliability and **"THE RIGHT FEEL"** that are the hallmarks of every Miller product.

## Features

- Compact, lightweight and versatile.
- 5 selectable positions of fluid pan and tilt drag +0.
- 16 position CB Plus<sup>TM</sup> counterbalance system.
- Wide payload range 1-19 kg (2.2-41.8lbs).
- Fluid drag system with smooth start and soft stop technology & balanced diagonal transitions.
- Controls "all in one location" design for fast, easy and practical use.
- Illuminated bubble level and pan-tilt drag controls.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Quick release, 120mm sliding camera platform with standard camera plate (euro).
- Removable ball level stud allows for flat base mounting with 3/8" screw thread.
- 1225 Mitchell base adaptor with clamp.
- Robust construction for rugged outdoor shooting conditions.
- Optional second pan handle mount.
- Side mounting points for view finders and accessories.
- 3 year warranty.



Camera plate (Euro) with 1/4" and 3/8" screws

Spare screw storage

Positive pan-tilt locks calliper brake system

Replaceable tilt end rosettes

Accessory mounting adaptor

5 plus zero positions of fluid tilt drag

Sliding camera platform lock

Quick release, 120mm sliding camera platform

16 selectable positions of counterbalance for payloads between 1-19kg

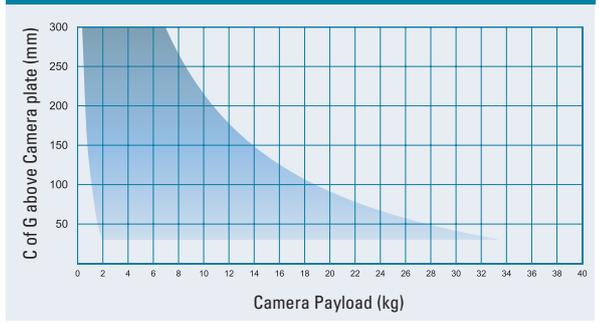
5 plus zero positions of fluid pan drag

Illuminated bubble level and pan-tilt drag controls

**Specifications -1072**

Weight	3.1kg (6.8lbs)
Payload range	1-19kg (2.2-41.8lbs)
Pan-tilt drag	5 selectable fluid drag positions + 0
Counterbalance	16 selectable positions
Pan-tilt locks	Positive lock calliper brake system
Tilt range	+90°/-75°
Pan range	360°
Camera platform	Quick release camera plate with 1/4" and 3/8" screws
Sliding range	120mm (4.7")
Mounting base	Ø100mm (3.9") ball levelling with 3 x M5 holes for flat base mounting
Height above bowl	162mm (6.4")
Illuminated controls	Bubble level, pan-tilt drag controls
Pan handle	696 Telescopic 390 to 590mm (15.4 to 23.2")
Temperature range	-40° to +65°C (-40° to +149°F)

**Counterbalance Performance**



# Systems Arrow<sup>x</sup> 3

## 3034

**System Arrow<sup>x</sup> 3 Sprinter II 1-stage (alloy)**  
with 470 On ground spreader



1-19kg  
2.2-41.8lbs



7.5kg  
16.7lbs



797-1587mm  
31.4-62.5"



1002mm  
39.4"



### Components:

1072	Arrow <sup>x</sup> 3 fluid head
1589G	Sprinter II 1-stage tripod (alloy)
470	On ground spreader
696	Pan handle - telescopic with clamp
3500	Arrow <sup>x</sup> softcase 1-stage

## 3035

**System Arrow<sup>x</sup> 3 Sprinter II 1-stage (alloy)**  
with 993 Mid level spreader + 475 feet



1-19kg  
2.2-41.8lbs



7.9kg  
17.6lbs



832-1592mm  
32.8-62.8"



1002mm  
39.4"



### Components:

1072	Arrow <sup>x</sup> 3 fluid head
1589	Sprinter II 1-stage tripod (alloy)
993	Mid level spreader
475	Rubber feet (set of 3)
696	Pan handle - telescopic with clamp
3500	Arrow <sup>x</sup> softcase 1-stage

## 3038

**System Arrow<sup>x</sup> 3 Sprinter II 2-stage (alloy)**  
with 470 On ground spreader



1-19kg  
2.2-41.8lbs



8.1kg  
18.0lbs



602-1692mm  
23.7-66.6"



862mm  
33.9"



### Components:

1072	Arrow <sup>x</sup> 3 fluid head
1580G	Sprinter II 2-stage tripod (alloy)
470	On ground spreader
696	Pan handle - telescopic with clamp
3502	Arrow <sup>x</sup> soft case 2-stage

## 3039

**System Arrow<sup>x</sup> 3 Sprinter II 2-stage (alloy)**  
with 993 Mid level spreader + 475 feet



1-19kg  
2.2-41.8lbs



8.5kg  
18.9lbs



602-1692mm  
23.7-66.6"



862mm  
33.9"



### Components:

1072	Arrow <sup>x</sup> 3 fluid head
1580	Sprinter II 2-stage tripod (alloy)
993	Mid level spreader
475	Rubber feet (set of 3)
696	Pan handle - telescopic with clamp
3502	Arrow <sup>x</sup> soft case 2-stage

\*System weights do not include the weight of the bag

**3043**  
**System Arrow<sup>x</sup> 3 Sprinter II 2-stage (carbon fibre)**  
 with 993 Mid level spreader + 475 feet



1-19kg  
 2.2-41.8lbs



7.9kg  
 17.6lbs



602-1692mm  
 23.7-66.6"



862mm  
 33.9"



**Components:**

1072	Arrow <sup>x</sup> 3 fluid head
1576	Sprinter II 2-stage tripod (carbon fibre)
993	Mid level spreader
475	Rubber feet (set of 3)
696	Pan handle - telescopic with clamp
3502	Arrow <sup>x</sup> soft case 2-stage

**3068**  
**System Arrow<sup>x</sup> 3 Solo 100-3 (carbon fibre)**



1-19kg  
 2.2-41.8lbs



6.8kg  
 15.1lbs



382-2032mm  
 15-80"



820mm  
 32.3"



**Components:**

1072	Arrow <sup>x</sup> 3 fluid head
1505	Solo 100 3-stage tripod (carbon fibre)
696	Pan handle - telescopic with clamp
1520	Solo shoulder strap (Aircell)
3502	Arrow <sup>x</sup> soft case 2-stage

**Arrow<sup>x</sup> 3 System Comparison Chart**

CAT	Components:	3034	3035	3038	3039	3043	3068
1072	Arrow <sup>x</sup> 3 fluid head	•	•	•	•	•	•
860	Camera plate (Euro) with 1/4" & 3/8" screws	•	•	•	•	•	•
696	Pan handle - telescopic with clamp	•	•	•	•	•	•
1589	Sprinter II 1-stage tripod (alloy)		•				
1589G	Sprinter II 1-stage tripod (alloy)	•					
1580	Sprinter II 2-stage tripod (alloy)				•		
1580G	Sprinter II 2-stage tripod (alloy)			•			
1576	Sprinter II 2-stage tripod (carbon fibre)					•	
1505	Solo 100 3-stage tripod (carbon fibre)						•
470	On ground spreader	•		•			
993	Mid level spreader		•		•	•	
475	Rubber feet (set of 3)		•		•	•	
1520	Solo shoulder strap (Aircell)						•
3500	Arrow <sup>x</sup> softcase 1-stage	•	•				
3502	Arrow <sup>x</sup> soft case 2-stage			•	•	•	•

**Accessories:**

858	Offset camera plate with 2 x 3/8" screws
860	Camera plate (Euro) with 1/4" & 3/8" screws
696	Pan handle - telescopic with clamp
1219	Accessory mounting bracket
1217	Accessory adaptor 1/4", 3/8" holes to suit 1219
1225	Mitchell base adaptor with clamp
478	HD rubber feet (set of 3)

# 1074 ARROW<sup>x</sup> 5 FLUID HEAD



## THE ENG/EFP MASTER

Following in the tradition and reputation of the world-renowned Arrow series, the all-new Arrow<sup>x</sup> 5 sets new dimensions in professional camera support augmenting the power of expression of creative professionals.

Featuring a wide payload range, precision fluid drag and Miller's innovative 16 position CB Plus™ counterbalance system, Arrow<sup>x</sup> 5 delivers the flexibility, speed of set up and accuracy of shot, professionals expect and demand.

2-21kg (4.4-46.2lbs) payload range and 7 + 0 selectable pan-tilt fluid drag positions make Arrow<sup>x</sup> 5 ideal for ENG and EFP, enabling it to be used with a wide range of cameras, lenses and accessories and offering.

CB Plus™ is an innovative sequential counterbalance design, taking traditional counter balancing a step forward ahead of the rest, resulting in repeatable, accurate and rapid setup. CB Plus™ features eight larger counterbalance steps, allowing the user to get to their required counterbalance position quickly and efficiently. The CB Plus "one flick" switch conveniently located at the front of the head, adds a half step between each of the eight larger steps enabling counterbalance fine-tuning when required.

The new Arrow<sup>x</sup> 5 comes with the reliability and "THE RIGHT FEEL" that are the hallmarks of every Miller product.

## Features

- Compact, lightweight and versatile.
- 7 selectable positions of fluid pan and tilt drag +0.
- 16 position CB Plus™ counterbalance system.
- Wide payload range 2-21kg (4.4-46.2lbs).
- Fluid drag system with smooth start and soft stop technology & balanced diagonal transitions.
- Controls "all in one location" design for fast, easy and practical use.
- Illuminated bubble level and pan-tilt drag controls.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Quick release, 120mm sliding camera platform with camera plate (euro).
- Removable ball level stud allows for flat base mounting with 3/8" screw thread.
- 1225 Mitchell base adaptor with clamp.
- Robust construction for rugged outdoor shooting conditions.
- Optional second pan handle mount.
- Side mounting points for viewfinders and accessories.
- 3 year warranty.



Camera plate (Euro) with 1/4" and 3/8" screws

Spare screw storage

Positive pan-tilt locks calliper brake system

Replaceable tilt end rosettes

Accessory mounting adaptor

7 plus zero positions of fluid tilt drag

Sliding camera platform lock

Quick release, 120mm sliding camera platform

16 selectable positions of counterbalance for payloads between 2-21kg

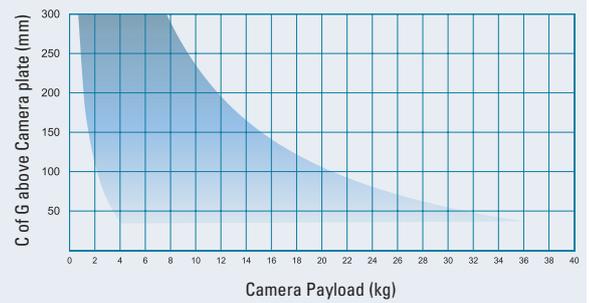
7 plus zero positions of fluid pan drag

Illuminated bubble level and pan-tilt drag controls

### Specifications -1074

Weight	3.4kg (7.4lbs)
Payload range	2-21kg (4.4-46.2lbs)
Pan-tilt drag	7 selectable fluid drag positions + 0
Counterbalance	16 selectable positions
Pan-tilt locks	Positive lock calliper brake system
Tilt range	+90°/-75°
Pan range	360°
Camera platform	Quick release camera plate with 1/4" and 3/8" screws
Sliding range	120mm (4.7")
Mounting base	Ø100mm (3.9") ball levelling with 3 x M5 holes for flat base mounting
Height above bowl	162mm (6.4")
Illuminated controls	Bubble level, pan-tilt drag controls
Pan handle	696 Telescopic 390 to 590mm (15.4 to 23.2")
Temperature range	-40° to +65°C (-40° to +149°F)

### Counterbalance Performance



# Systems Arrow<sup>x</sup> 5

**3092**

**System Arrow<sup>x</sup> 5 Sprinter II 1-stage (alloy)**  
with 470 On ground spreader



2-21kg  
4.4-46.2lbs



7.8kg  
17.3lbs



797-1587mm  
31.4-62.5"



1002mm  
39.4"



**Components:**

1074	Arrow <sup>x</sup> 5 fluid head
1589G	Sprinter II 1-stage tripod (alloy)
470	On ground spreader
696	Pan handle - telescopic with clamp
3500	Arrow <sup>x</sup> softcase 1-stage

**3093**

**System Arrow<sup>x</sup> 5 Sprinter II 1-stage (alloy)**  
with 993 Mid level spreader + 475 feet



2-21kg  
4.4-46.2lbs



8.2kg  
18.2lbs



832-1592mm  
32.8-62.8"



1002mm  
39.4"



**Components:**

1074	Arrow <sup>x</sup> 5 fluid head
1589	Sprinter II 1-stage tripod (alloy)
993	Mid level spreader
475	Rubber feet (set of 3)
696	Pan handle - telescopic with clamp
3500	Arrow <sup>x</sup> softcase 1-stage

**3097**

**System Arrow<sup>x</sup> 5 Sprinter II 2-stage (alloy)**  
with 993 Mid level spreader + 475 feet



2-21kg  
4.4-46.2lbs



8.8kg  
19.6lbs



602-1692mm  
23.7-66.6"



862mm  
33.9"



**Components:**

1074	Arrow <sup>x</sup> 5 fluid head
1580	Sprinter II 2-stage tripod (alloy)
993	Mid level spreader
475	Rubber feet (set of 3)
696	Pan handle - telescopic with clamp
3502	Arrow <sup>x</sup> soft case 2-stage

**3101**

**System Arrow<sup>x</sup> 5 Sprinter II 2-stage (carbon fibre)**  
with 993 Mid level spreader + 475 feet



2-21kg  
4.4-46.2lbs



8.2kg  
18.2lbs



602-1692mm  
23.7-66.6"



862mm  
33.9"



**Components:**

1074	Arrow <sup>x</sup> 5 fluid head
1576	Sprinter II 2-stage tripod (carbon fibre)
993	Mid level spreader
475	Rubber feet (set of 3)
696	Pan handle - telescopic with clamp
3534	Shell case with wheels

\*System weights do not include the weight of the bag

**3128**  
**System Arrow<sup>x</sup> 5 Solo 100 3-stage (carbon fibre)**



2-21kg  
 4.4-46.2lbs



7.1kg  
 15.8lbs



382-2032mm  
 15-80"



820mm  
 32.3"



**Components:**

1074	Arrow <sup>x</sup> 5 fluid head
1505	Solo 100 3-stage tripod (carbon fibre)
696	Pan handle - telescopic with clamp
1520	Solo shoulder strap (Aircell)
3502	Arrow <sup>x</sup> soft case 2-stage

**Arrow<sup>x</sup> 5 System Comparison Chart**

CAT	Components:	3092	3093	3097	3101	3128
1074	Arrow <sup>x</sup> 5 fluid head	•	•	•	•	•
860	Camera plate (Euro) with 1/4" & 3/8" screws	•	•	•	•	•
696	Pan handle - telescopic with clamp	•	•	•	•	•
1589	Sprinter II 1-stage tripod (alloy)		•			
1589G	Sprinter II 1-stage tripod (alloy)	•				
1580	Sprinter II 2-stage tripod (alloy)			•		
1576	Sprinter II 2-stage tripod (carbon fibre)				•	
1505	Solo 100 3-stage tripod (carbon fibre)					•
470	On ground spreader	•				
993	Mid level spreader		•	•	•	
475	Rubber feet (set of 3)		•	•	•	
1520	Solo shoulder strap (Aircell)					•
3500	Arrow <sup>x</sup> softcase 1-stage	•	•			
3502	Arrow <sup>x</sup> soft case 2-stage			•		•
3534	Shell case with wheels				•	

**Accessories:**

858	Offset camera plate with 2 x 3/8" screws
860	Camera plate (Euro) with 1/4" & 3/8" screws
696	Pan handle - telescopic with clamp
1219	Accessory mounting bracket
1217	Accessory adaptor 1/4", 3/8" holes to suit 1219
1225	Mitchell base adaptor with clamp
478	HD rubber feet (set of 3)

# 1076 ARROW<sup>x</sup> 7 FLUID HEAD



## THE HEAVY DUTY PERFORMER

Following in the tradition and reputation of the world-renowned Arrow series, the all-new Arrow<sup>x</sup> 7 sets new dimensions in professional camera support augmenting the power of expression of creative professionals.

Featuring a wide payload range, precision fluid drag and Miller's innovative 16 position CB Plus<sup>™</sup> counterbalance system, Arrow<sup>x</sup> 7 delivers the flexibility, speed of set up and accuracy of shot, professionals expect and demand.

6-25kg (13.2-55.1lbs) payload range and 7 + 0 selectable pan-tilt fluid drag positions make Arrow<sup>x</sup> 7 ideal for EFP, Studio and Field OB enabling it to be used with a wide range of cameras, lenses and accessories and offering.

CB Plus<sup>™</sup> is an innovative sequential counterbalance design, taking traditional counterbalancing a step forward ahead of the rest, resulting in repeatable, accurate and rapid setup. CB Plus<sup>™</sup> features eight larger counterbalance steps, allowing the user to get to their required counterbalance position quickly and efficiently. The CB Plus "one flick" switch conveniently located at the front of the head, adds a half step between each of the eight larger steps enabling counterbalance fine-tuning when required.

The new Arrow<sup>x</sup> 7 comes with the reliability and "THE RIGHT FEEL" that are the hallmarks of every Miller product.

## Features

- Compact, lightweight and versatile.
- 7 selectable positions of fluid pan and tilt drag +0.
- 16 position CB Plus<sup>™</sup> counterbalance system.
- Wide payload range 6-25kg (13.2-55.1lbs).
- Fluid drag system with smooth start and soft stop technology & balanced diagonal transitions.
- Controls "all in one location" design for fast easy and practical use.
- Illuminated bubble level and pan-tilt drag controls.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Quick release, 120mm sliding camera platform with camera plate (euro).
- Removable ball level stud allows for flat base mounting with 3/8" screw thread.
- 1225 Mitchell base adaptor with clamp.
- Robust construction for rugged outdoor shooting conditions.
- Optional second pan handle mount.
- Side mounting points for viewfinders and accessories.
- 3 year warranty.



Camera plate (Euro) with 1/4" and 3/8" screws

Sliding camera platform lock

Spare screw storage

Quick release, 120mm sliding camera platform

Positive pan-tilt locks calliper brake system

16 selectable positions of counterbalance for payloads between 2-21kg

Replaceable tilt end rosettes

7 plus zero positions of fluid pan drag

Accessory mounting adaptor

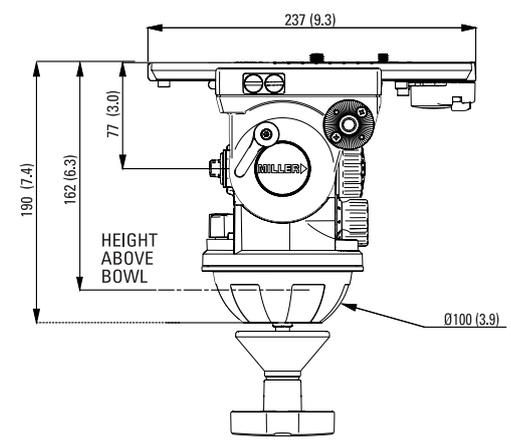
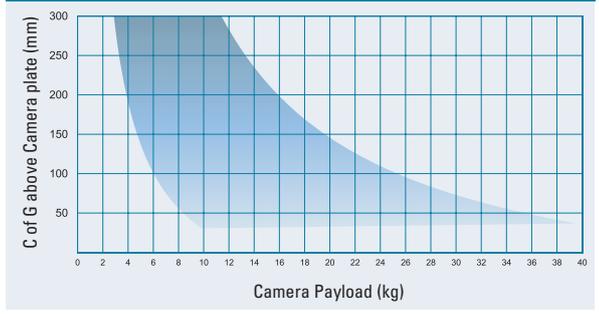
Illuminated bubble level and pan-tilt drag controls

7 plus zero positions of fluid tilt drag

**Specifications -1076**

Weight	3.4kg (7.4lbs)
Payload range	6-25kg (13.2-55.1lbs)
Pan-tilt drag	7 selectable fluid drag positions + 0
Counterbalance	16 selectable positions
Pan-tilt locks	Positive lock calliper brake system
Tilt range	+90°/-75°
Pan range	360°
Camera platform	Quick release camera plate with 1/4" and 3/8" screws
Sliding range	120mm (4.7")
Mounting base	Ø100mm (3.9") ball levelling with 3 x M5 holes for flat base mounting
Height above bowl	162mm (6.4")
Illuminated controls	Bubble level, pan-tilt drag controls
Pan handle	696 Telescopic 390 to 590mm (15.4 to 23.2")
Temperature range	-40° to +65°C (-40° to +149°F)

**Counterbalance Performance**



# Systems Arrow<sup>x</sup> 7

**3155**

**System Arrow<sup>x</sup> 7 Sprinter II 1-stage (alloy)**  
with 470 On ground spreader



6-25kg  
13.2-55.1lbs



7.8kg  
17.3lbs



797-1587mm  
31.4-62.5"



1002mm  
39.4"



**Components:**

1076	Arrow <sup>x</sup> 7 fluid head
1589G	Sprinter II 1-stage tripod (alloy)
470	On ground spreader
696	Pan handle - telescopic with clamp
3500	Arrow <sup>x</sup> softcase 1-stage

**3156**

**System Arrow<sup>x</sup> 7 Sprinter II 1-stage (alloy)**  
with 993 Mid level spreader + 475 feet



6-25kg  
13.2-55.1lbs



8.2kg  
18.2lbs



832-1592mm  
32.8-62.8"



1002mm  
39.4"



**Components:**

1076	Arrow <sup>x</sup> 7 fluid head
1589	Sprinter II 1-stage tripod (alloy)
993	Mid level spreader
475	Rubber feet (set of 3)
696	Pan handle - telescopic with clamp
3500	Arrow <sup>x</sup> softcase 1-stage

**3164**

**System Arrow<sup>x</sup> 7 Sprinter II 2-stage (carbon fibre)**  
with 993 Mid level spreader + 475 feet



6-25kg  
13.2-55.1lbs



8.2kg  
18.2lbs



602-1692mm  
23.7-66.6"



862mm  
33.9"



**Components:**

1076	Arrow <sup>x</sup> 7 fluid head
1576	Sprinter II 2-stage tripod (carbon fibre)
993	Mid level spreader
475	Rubber feet (set of 3)
696	Pan handle - telescopic with clamp
3534	Shell case with wheels

**3175**

**System Arrow<sup>x</sup> 7 HD 1-stage (alloy)**  
with 993 Mid level spreader + 475 feet



6-25kg  
13.2-55.1lbs



10.4kg  
23.1lbs



947-1737mm  
37.3-68.4"



1092mm  
43"



**Components:**

1076	Arrow <sup>x</sup> 7 fluid head
931	HD 1-stage tripod (alloy)
993	Mid level spreader
475	Rubber feet (set of 3)
696	Pan handle - telescopic with clamp

\*System weights do not include the weight of the bag

**3179**  
**System Arrow<sup>x</sup> 7 HD 2-stage (carbon fibre)**  
 with 993 Mid level spreader + 475 feet



6-25kg  
 13.2-55.1lbs



9.6kg  
 21.1lbs



642-1752mm  
 25.3-69.0"



912mm  
 35.9"



**Components:**

1076	Arrow <sup>x</sup> 7 fluid head
925	HD 2-stage tripod (carbon fibre)
993	Mid level spreader
475	Rubber feet (set of 3)
696	Pan handle - telescopic with clamp
3534	Shell case with wheels

**Arrow<sup>x</sup> 7 System Comparison Chart**

CAT	Components:	3155	3156	3164	3175	3179
1076	Arrow <sup>x</sup> 7 fluid head	•	•	•	•	•
860	Camera plate (Euro) with 1/4" & 3/8" screws	•	•	•	•	•
696	Pan handle - telescopic with clamp	•	•	•	•	•
1589	Sprinter II 1-stage tripod (alloy)		•			
1589G	Sprinter II 1-stage tripod (alloy)	•				
1576	Sprinter II 2-stage tripod (carbon fibre)			•		
931	HD 1-stage tripod (alloy)				•	
925	HD 2-stage tripod (carbon fibre)					•
470	On ground spreader	•				
993	Mid level spreader		•	•	•	•
475	Rubber feet (set of 3)		•	•	•	•
3500	Arrow <sup>x</sup> softcase 1-stage	•	•			
3534	Shell case with wheels			•		•

**Accessories:**

858	Offset camera plate with 2 x 3/8" screws
860	Camera plate (Euro) with 1/4" & 3/8" screws
696	Additional pan handle - telescopic with clamp
1219	Accessory mounting bracket
1217	Accessory adaptor 1/4", 3/8" holes to suit 1219
1225	Mitchell base adaptor with clamp
478	HD rubber feet (set of 3)

# 150mm series

## Fluid head range

The Miller 150mm fluid head range, including Skyline and Cinline, has been designed to meet the demanding needs of studios, outside broadcasts and Cinematographers who consider speed, reliability and consistency to be paramount.

A feature-rich, cost-effective solution built to improve work-flow and boost production value, the 150mm fluid head range allows operators to capture high-quality shots with its smooth pans and tilts and perfect balance.

## At a glance

- Fluid drag system with smooth start and soft stop technology and balanced diagonal transitions.
- 7 selectable of fluid pan-tilt drag positions +0.
- 8 selectable counterbalance positions.
- Suitable for payloads to 0-37.5kg (0-82.5lbs).
- Controls "all in one location" design for fast easy and practical use.
- Unique all illuminated bubble level, pan-tilt drag and counterbalance controls.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- High precision ball bearing supported pan-tilt movement.
- Quick release 120mm sliding camera platform camera plate (large euro).
- Front box adaptor for camera assistant's accessory box.
- Robust construction for rugged outdoor shooting conditions.
- Dual telescopic pan handles.
- Dual side mounts for viewfinders and accessories.
- 3 year warranty.



*Ketch Rossi*  
*Director | Cinematographer*

*"The Miller Cinline 70 brings my experience of fluid heads to another level, one where I'm certain I will not be stepping down from."*

*This new system, simply put, is a sublime marriage of technological advancement and ergonomics designed to let the Cinematographer worry about the shot, and be allowed to follow the subject with ease using any given camera setup."*

# 1050 SKYLINE 70 FLUID HEAD



## THE BIG PICTURE

Designed for outside broadcast and studio productions, the Skyline 70 brings a new dimension to professional camera support. Incorporating advanced precision fluid drag and counterbalance systems operated through rear mounted "all in one location" with unique illumination of all controls and bubble level, the Skyline 70 makes it even faster and easier than ever before to set up and capture the action.

With an extended 7+0 position fluid drag system employing smooth start and soft stop technology, well balanced diagonal drag transition, 8 counterbalance settings plus 120mm camera plate balance travel, the Skyline 70 offers a fast reliable set up you can trust and is versatile enough to use over a wide array of camera configurations. It is built to deliver consistent performance and drag resistance with no variation over a wide range of temperatures and environments.

Constructed of lightweight high-strength die-cast alloy and rigid composite polymers and featuring precision ball bearing supported pan and tilt movements, Skyline 70 is extremely durable and robust delivering silky smooth pan-tilt fluid actions to match camera payloads up to 37.5kg (82.5lbs).

Skyline 70 the broadcasters choice and comes with the reliability and "THE RIGHT FEEL" that are the hallmarks of every Miller product.

## Features

- 7 selectable of fluid pan-tilt drag positions +0.
- 8 selectable positions of counterbalance.
- Perfect for payloads to 4.5-37.5kg (9.9-82.5lbs).
- Fluid drag system with smooth start and soft stop technology and balanced diagonal transition.
- Controls "all in one location" design for fast easy and practical use.
- Unique all illuminated bubble level, pan-tilt drag and counterbalance controls.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- High precision ball bearing supported pan-tilt movement.
- Quick release 120mm sliding camera platform camera plate (large euro).
- Front mount adaptor for camera assistant's accessory box.
- Robust construction for rugged outdoor shooting conditions.
- Dual telescopic pan handles.
- Dual side mounts for viewfinders and accessories.
- 3 year warranty.

Camera plate (Large Euro) with 2 x 3/8" camera screws

Positive pan-tilt locks calliper brake system

Front box adaptor

Accessory mounting adaptor

7 plus zero positions of fluid tilt drag

Sliding camera platform lock

Quick release, 120mm sliding camera platform

8 selectable positions of counterbalance for payloads between 4.5-37.5kg

7 plus zero positions of fluid pan drag

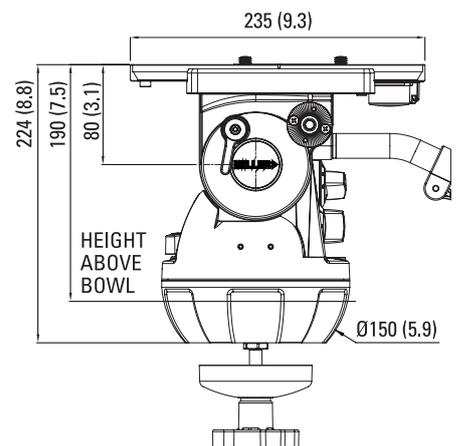
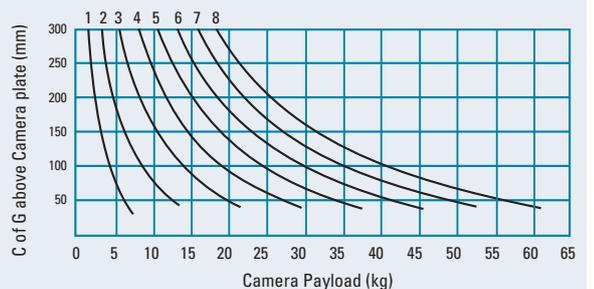
Unique all illuminated bubble level, pan-tilt drag and counterbalance controls



**Specifications -1050**

Weight	6.1kg (13.4lbs)
Payload range	4.5-37.5kg (9.9-82.5lbs)
Pan-tilt drag	7 selectable fluid drag positions + 0
Counterbalance	8 selectable positions
Pan-tilt locks	Positive lock calliper brake system
Tilt range	+90°/-75°
Pan range	360°
Camera platform	Quick release camera plate with 2 x 3/8" screws
Sliding range	120mm (4.7")
Mounting base	Ø150mm (5.9") ball levelling with 3 x M5 holes for flat base mounting
Height above bowl	190mm (7.5")
Illuminated controls	Bubble Level, pan-tilt drag & counterbalance controls
Safety lock	Quick release tilt lock pin
Pan handle	2 x 698 HD Telescopic 430 to 630mm (16.9 to 24.8")
Temperature range	-40° to +65°C (-40° to +149°F)

**Counterbalance Performance**



# Systems Skyline 70

## 2060

**System Skyline HD 70 2-stage (carbon fibre)**  
with 993 Mid level spreader + 475 feet



4.5-37.5kg  
9.9-82.5lbs



12.9kg  
28.7lbs



710-1805mm  
28-71.1"



940mm  
37"



### Components:

1050	Skyline 70 fluid head
937	HD 150 2-stage tripod (carbon fibre)
993	Mid level spreader
475	Rubber feet (set of 3)
698	2 x Pan handle HD - telescopic with clamp

## 2070

**System Skyline 70 HD 1-stage (alloy)**  
with 993 Mid level spreader + 475 feet



4.5-37.5kg  
9.9-82.5lbs



13.1kg  
29.1lbs



990-1780mm  
39-70.1"



1130mm  
44.5"



### Components:

1050	Skyline 70 fluid head
943	HD 150 1-stage tripod (alloy)
993	Mid level spreader
475	Rubber feet (set of 3)
698	2 x Pan handle HD - telescopic with clamp

## 2075

**System Skyline 70 HD 1-stage (alloy)**  
with 993 Mid level spreader + Dolly + 475 feet



4.5-37.5kg  
9.9-82.5lbs



19.9kg  
44.2lbs



1044-1635mm  
41.1-64.4"



980mm  
38.6"



### Components:

1050	Skyline 70 fluid head
944	HD 150 1-stage studio tripod (alloy)
993	Mid level spreader
475	Rubber feet (set of 3)
698	2 x Pan handle HD - telescopic with clamp
483	Studio tracker dolly

\*System weights do not include the weight of the bag

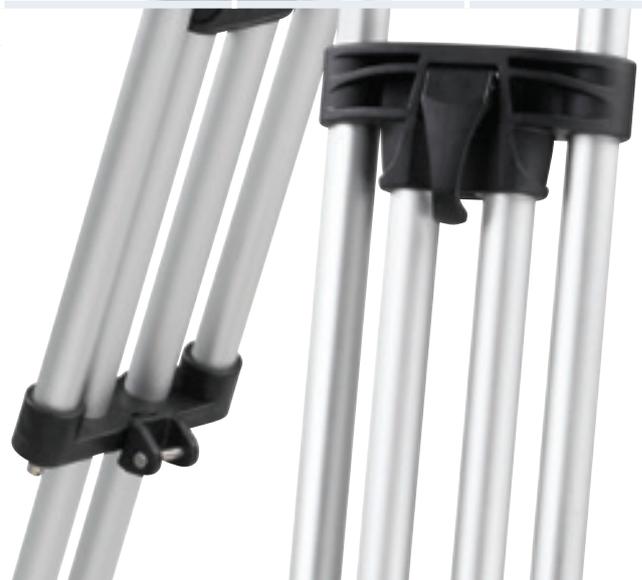


### Skyline 70 System Comparison Chart

CAT	Components:	2060	2070	2075
1050	Skyline 70 fluid head	•	•	•
1060	Camera plate large (Euro) with 2 x 3/8" screws	•	•	•
937	HD 150 2-stage tripod (carbon fibre)	•		
943	HD 150 1-stage tripod (alloy)		•	
944	HD 150 1-stage Studio tripod (alloy)			•
993	Mid level spreader	•	•	•
475	Rubber feet (set of 3)	•	•	•
698	2 x Pan handle HD - telescopic with clamp	•	•	•
483	Studio Tracker Dolly			•

### Accessories:

698	Pan handle HD - telescopic with clamp
1221	Accessory mounting bracket
1217	Accessory adaptor 1/4", 3/8" holes to suit 1221
1060	Camera plate large (Euro) with 2 x 3/8" screws
396	Skyline 70 head case (alloy)
478	HD rubber feet (set of 3)



# 1085 SKYLINE 90 FLUID HEAD



## FOR THE DEMANDING PROFESSIONAL

The Skyline 90 Fluid head is a heavy duty head designed to meet the challenging requirements of outside broadcast productions. Reliability and ease of setup, smooth pan, tilts and diagonals and user ergonomics form the hallmark of this revolutionary head.

The Skyline 90 has continuous counterbalance control that ranges from zero to 165 lbs. (75 kg.) at 12 in. (30 cm.) above the centre tilt axis and 15+0 selectable fluid pan-tilt drag positions to ensure the optimum drag for any lens focal length. With a sliding platform featuring 300mm of sliding range that glides smoothly and effortlessly with a full payload, the Skyline 90 easily balances heavy camera loads. It also comes with an auto safety lock to ensure a secure horizontal position when loading or dismantling heavy box lenses. The floating calliper pan and tilt locks with large metal levers can be operated simultaneously with one hand without causing picture disturbance. Two bubble levels located at either side of the head allow for convenient levelling.

Miller Skyline 90 come with a three year warranty, endorsing the reliability and **"THE RIGHT FEEL"** that are the hallmarks of every Miller product.

## Features

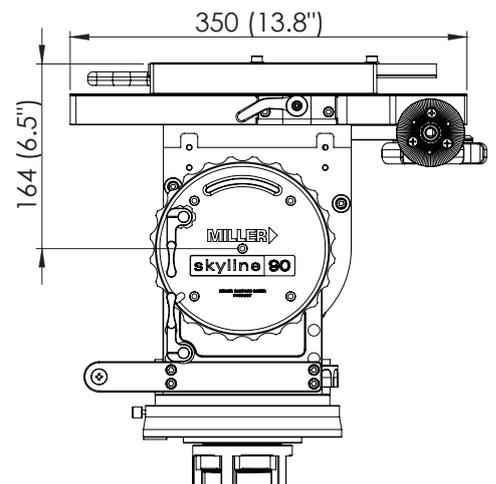
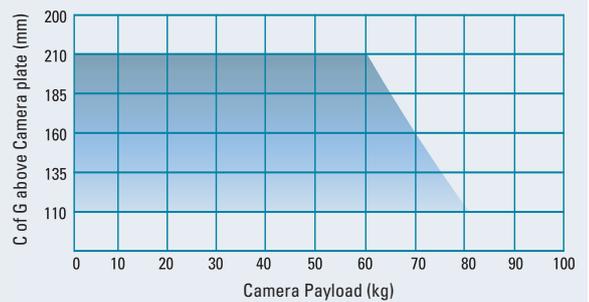
- 15 selectable fluid pan-tilt drag positions + 0.
- Continuous counterbalance control knob for perfect counterbalance adjustment.
- Perfect for payloads up to 75kg (165lbs) at 30 cm above central tilt axis.
- Fluid drag system with smooth start and soft stop technology & balanced diagonal transition.
- Two bubble levels.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- Quick release wedge plate for sturdy camera mounting (optional).
- Mitchell base for flat mounting.
- Robust all-alloy construction.
- Heavy duty, industry standard telescopic pan handles (optional).
- 3 year warranty.



## Specifications -1085

Weight	23.0kg (50.7lbs)
Payload range	0-75kg (0-165.4lbs) @ 300mm above pivotal centre
Pan-tilt drag	15 selectable fluid drag positions + 0
Counterbalance	Continuous adjustment (0 - 100%)
Pan-tilt locks	Positive lock caliper brake system
Tilt range	+60° / -60°
Pan range	360°
Camera platform	Quick release wedge plate
Sliding range	120mm (4.7")
Mounting base	Mitchell base
Height above bowl	332mm (13.1")
Illuminated controls	N/A
Safety lock	Quick release tilt lock pin
Pan handle	2 x 3342 HD Telescopic 520 to 710 mm (20.5 to 28.0")
Temperature range	-40° to +65°C (-40° to +149°F)

## Counterbalance Performance



# 1055 CINELINE 70 FLUID HEAD



## FOR THE PASSIONATE CREATIVES

Designed for cinematic productions, the Cinline 70 brings a new dimension to professional camera support. Incorporating advanced precision fluid drag and counterbalance systems operated through rear mounted "all in one location" with unique illumination of all controls and bubble level, the Cinline 70 makes it even faster and easier than ever before to set up and capture the action.

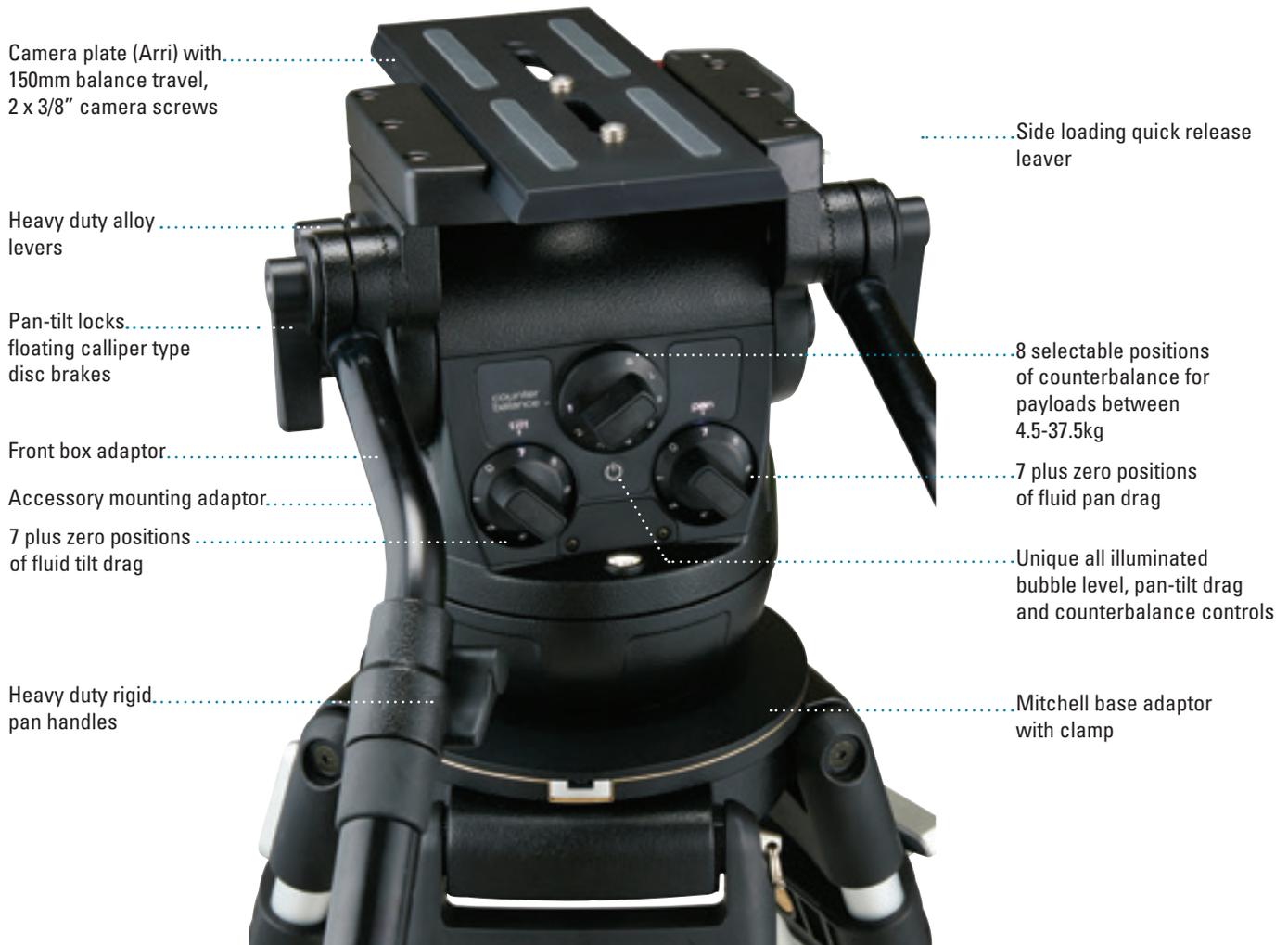
With an extended 7+0 position fluid drag system employing smooth start and soft stop technology, well balanced diagonal drag transition, 8 counterbalance settings plus 150mm camera plate balance travel, the Cinline 70 offers a fast reliable set up you can trust and is versatile enough to use over a wide array of camera configurations. It is built to deliver consistent performance and drag resistance with no variation over a wide range of temperatures and environments.

Constructed of lightweight high-strength die-cast alloy and rigid composite polymers and featuring precision ball bearing supported pan and tilt movements, Cinline 70 is extremely durable and robust delivering silky smooth pan-tilt fluid actions to match camera payloads up to 37.5kg (82.5lbs).

Cinline 70 meets the demands of professional storytellers and comes with the reliability and **"THE RIGHT FEEL"** that are the hallmarks of every Miller product.

## Features

- 7 selectable of fluid pan-tilt drag positions +0.
- 8 selectable positions of counterbalance.
- Perfect for payloads to 4.5-37.5kg (9.9-82.5lbs).
- Fluid drag system with smooth start and soft stop technology and balanced diagonal transition.
- Controls "all in one location" design for fast easy and practical use.
- Unique all illuminated bubble level, pan-tilt drag and counterbalance controls.
- Precise floating pan-tilt calliper locks ensure bounce free on-off performance.
- High precision ball bearing supported pan-tilt movement.
- Side loading camera platform, 150mm travel with Arri type camera plate.
- Front mount adaptor for camera assistant's accessory box.
- Mitchell base adaptable.
- Robust construction for rugged outdoor shooting conditions.
- Dual telescopic pan handles.
- Dual side mounts for viewfinders and accessories.
- 3 year warranty.



Camera plate (Arri) with 150mm balance travel, 2 x 3/8" camera screws

Heavy duty alloy levers

Pan-tilt locks floating calliper type disc brakes

Front box adaptor

Accessory mounting adaptor

7 plus zero positions of fluid tilt drag

Heavy duty rigid pan handles

Side loading quick release lever

8 selectable positions of counterbalance for payloads between 4.5-37.5kg

7 plus zero positions of fluid pan drag

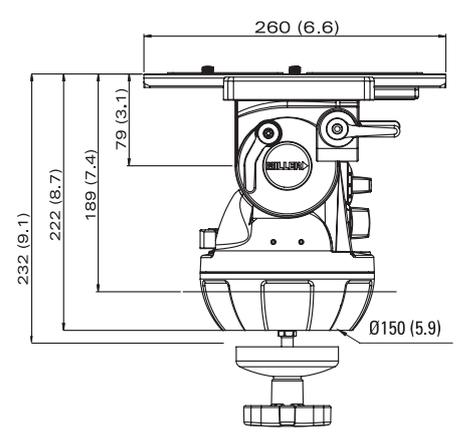
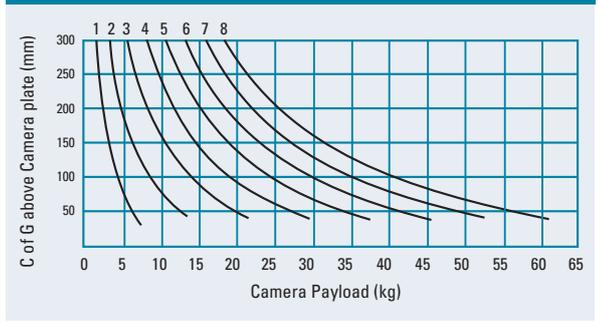
Unique all illuminated bubble level, pan-tilt drag and counterbalance controls

Mitchell base adaptor with clamp

**Specifications -1055**

Weight	5.8kg (12.7lbs)
Payload range	4.5-37.5kg (9.9-82.5lbs)
Pan-tilt drag	7 selectable fluid drag positions + 0
Counterbalance	8 selectable positions
Pan-tilt locks	Positive lock calliper brake system
Tilt range	+90°/-75°
Pan range	360°
Camera platform	Side loading quick release with 150mm (5.9") of balance travel 2 x 3/8" screws
Sliding range	150mm (5.9")
Mounting base	Ø150mm (5.9") ball levelling with 3 x M5 holes for flat base mounting
Height above bowl	189mm (7.4")
Illuminated controls	Bubble Level, pan-tilt drag & counterbalance controls
Safety lock	Quick release tilt lock pin
Pan handle	2 x 698 HD Telescopic 430 to 630mm (16.9 to 24.8")
Temperature range	-40° to +65°C (-40° to +149°F)

**Counterbalance Performance**



# Systems Cinline 70

## 2090

**System Cinline 70 HD MB 1-stage (alloy)**  
with 2130 HD ground spreader



4.5-37.5kg  
9.9-82.5lbs



15.8kg  
35.1lbs



737-1549mm  
29.0 - 61.0"



1178mm  
46.4"



### Accessories:

1065	Camera plate (Arri) with 2 x 3/8" screws
1221	Accessory mounting bracket
1217	Accessory adaptor 1/4", 3/8"
1223	Front box adaptor
698	Pan handle HD - telescopic with clamp
483	Studio tracker dolly
1230	Pan handle - articulated with extender
1234	Pan handle - short grip
396	Skycine 70 head case (alloy)

### Components:

1055	Cinline 70 fluid head
2110G	HD MB 1-stage tripod (alloy)
1225	Mitchell base adaptor with clamp
2130	HD ground spreader
698	2 x Pan handle HD - telescopic with clamp

1234 Pan handle -short grip

1065 Camera plate (Arri) with 2 x 3/8" screws

1230 Pan handle - articulated with extender

1221 Accessory mounting bracket

1217 Accessory adaptor 1/4", 3/8"

1225 Mitchell base adaptor with clamp

1223 Front box adaptor





# Tripods

## Tripods: a vital stable base for overall performance

Just as the fluid head is a vital part of a camera's overall performance so too is the tripod. Without a rigid tripod providing a stable base, the performance of the other components can be compromised. Miller tripods are constructed to exacting tolerances from high quality lightweight carbon fibre or precision alloy tubing. These combined elements provide rigidity and stability across the complete range of Miller tripods, even on the heaviest pans in the most difficult conditions.

## Choosing a Tripod

The fluid head you have chosen will influence your tripod options. A wide choice of tripod models are available in 75mm, 100mm, 150mm bowl sizes plus Mitchell flat base to match the head you have chosen.

Tripods are also available in single, two and three-stage configurations with the option of high performance carbon fibre or alloy tubing, as well as a choice of compatible locking systems. Single stage systems are generally lighter and quicker to deploy whereas two and three stage systems provide more versatility for height adjustment.

Miller offers four families of tripods, Solo, Toggle, Sprinter II and HD, each has its own characteristics, which make it more suitable to particular applications.

## Tripod spreaders

A tripod spreader assists the setup of your tripod by keeping the legs at an equal or pre-set distance apart and also assists stability.

Miller offers three spreader styles, along with the option of no spreader on the Solo tripod range.

## Spreader options

- Ground spreader are used where most shooting is performed on a level surface.
- Above ground spreader are used where shooting is often performed on uneven surfaces.
- Mid-level spreader are suitable for shooting on all surfaces. A mid-level spreader includes an adjustable center hub for height trimming.

To determine which tripod matches your requirements best, take into account the size, weight, speed of operation, versatility and ground terrain and then select from the Miller range.



# SOLO 75 TRIPODS

## LEAN, LIGHT AND LOW

The Solo 75 tripod range takes versatility and portability to a new plateau. Utilising an innovative leg angle lock mechanism the Solo 75 tripod eliminates the need for a spreader whilst still offering rock solid support. No other tripod matches the performance of the Solo tripod.

### An integrated 75mm bowl

A die cast alloy bowl offers quick levelling, optimum torsional rigidity and long term durability. Industry standard 75mm bowl suits all 75mm Miller fluid heads.



### AIR Cell Super Comfort carry strap and weatherproof carry case

Miller's detachable AIR cell patented shoulder strap offers easy and comfortable carriage, while the impact proof softcase satisfies all transport needs.



### Concentric self-adjusting rapid leg locks

New rapid leg locks that lock in half the time. Super reliable self adjusting robust design.

No protruding lock components. Channel lock tubing so you can tighten lock with one hand.



### 3 positional leg angle locks

The 3-position leg angle locks take Solo down to a ground-hugging 220mm (9.2") with absolute stability. The leg angle locks eliminate the need for a spreader increasing operational reliability – perfect for the extremes of location production.



### Neoprene leg protection

Complete protection for tripod tubing when packed down. Excellent grip while carrying or setting up the tripod in extreme weather climates.



### High strength carbon fibre/ basalt tubing

The Solo 75 carbon fibre/basalt tubing with unique Solo 'weave' appearance makes an ultra light field tripod – only 2.9kg for a tripod which extends from 220-1870mm (9.2-73.6")! Ultra strong – leg and bowl rigidity.



### Spike with wind down Rubber feet.

For all surfaces the Solo tripod can be adapted to suit all terrains by winding up the Rubber feet to reveal spikes.

## 1501

### Solo 75 2-stage tripod (carbon fibre)



20kg  
44.1lbs



2.4kg  
5.29lbs



234-1614mm  
9.2-63.5"



75mm  
2.9"



700mm  
27.6"



#### Specifications:

Leg extension	2-stage telescopic
Lock type	Concentric Rapid Lock
Leg material	Carbon fibre

## 1630

### Solo 75 2-stage tripod (alloy)



20kg  
44.1lbs



2.9kg  
6.4lbs



234-1625mm  
9.2-64"



75mm  
2.9"



700mm  
27.6"



#### Specifications:

Leg extension	2-stage telescopic
Lock type	Concentric Rapid Lock
Leg material	Alloy

## 2001

### Solo 75 3-stage tripod (carbon fibre)



20kg  
44.1lbs



2.9kg  
6.4lbs



220-1870mm  
8.7-73.6"



75mm  
2.9"



658mm  
25.9"



#### Specifications:

Leg extension	3-stage telescopic
Lock type	Concentric Rapid Lock
Leg material	Carbon fibre

#### Accessories

394	Solo dolly
1520	Solo shoulder strap (Aircell)
1590	D36 Solo Leg Cover (set of 3)

# SOLO 100 TRIPODS

## THE ULTIMATE ULTRA LIGHT ENG TRIPOD

Reaching a sky high 1870mm (73.6") down to a ground hugging 220mm (8.7") without a spreader and easy ball levelling the Solo series of 100mm bowl tripods is built to tackle even the most demanding conditions of on location shooting yet light enough to take anywhere.

### An integrated 100mm bowl

A die cast alloy bowl offers quick levelling, optimum torsional rigidity and long term durability. Industry standard 100mm bowl suits all 100mm Miller fluid heads.



### AIR cell super comfort carry strap and weatherproof carry case

Miller's detachable AIR Cell patented shoulder strap offers easy and comfortable carriage, while the impact proof softcase satisfies all transport needs.



### Concentric self-adjusting rapid leg locks

New rapid leg locks that lock in half the time. Super reliable self adjusting robust design. No protruding lock components. Channel lock tubing so you can tighten lock with one hand.



### The 3-position leg angle locks

Take Solo down to a ground-hugging 220mm (8.7") with absolute stability. The leg angle locks eliminate the need for a spreader increasing operational reliability – a boost for the city rigours of ENG or the extremes of location production.



### Neoprene leg protection

Complete protection for tripod tubing when packed down. Excellent grip while carrying or setting up the tripod in extreme weather climates.

### Pulltrusion high strength carbon fibre/basalt tubing

Unique Solo 'weave' appearance ultra light - only 3.1kg for a tripod which extends from 220-1870mm (8.7-73.6"). Ultra strong - leg and bowl rigidity.

### Spike with wind down rubber feet

For all surfaces the Solo tripod can be adapted to suit all terrains by winding up the rubber feet to reveal spikes.



## LEAN

The world's most advanced pulltrusion carbon fibre/basalt tubing means Solo gives you a solid operating height up to 1870mm (73.6") in a lean and light design. In addition to the sleek 3-stage telescoping design, Miller has eliminated the need for a spreader with an innovative leg angle control that incorporates a safety lock to ensure safe and easy setting of the tripod.

## LIGHT

Carbon fibre/basalt tubing, high strength magnesium and die cast alloy components provide the ultimate in ultra light yet rigid bowl attachment for the Solo tripod series. The Solo design manages to keep the bowl-to-head connection absolutely stable while keeping the tripod weight and size to an absolute minimum.

## LOW

You will not need Baby Legs or a Mini tripod with Solo. With a low height setting down to 220mm (8.7"), no spreader and easy ball levelling, you are guaranteed of superbly stable images from any angle across any terrain.

**1505**

**Solo 100 3-stage tripod (carbon fibre)**



30kg  
66lbs



2.9kg  
6.4lbs



220-1870mm  
8.7-73.6"



100mm  
3.9"



658mm  
25.9"



### Specifications:

Leg extension	3-stage telescopic
Lock type	Concentric
Leg material	Carbon fibre

# TOGGLE TRIPODS

## SPEEDY, LIGHT WEIGHT PERFORMERS

Built for compact storage, maximum strength and optimum versatility the Toggle tripod series a proven reliable workhorse. It lets you set up in seconds whilst offering optimum torsional rigidity for stable shooting in the studio or on location.

75mm Bowl levelling cast alloy reinforced bowl design for maximum torsional rigidity and superior stability under load.



### Fast Toggle Adjustment

With just a single twist the toggle lever is designed to provide positive leg locking for fast set up without risk of over tightening.

### Light weight alloy construction

Durable and rigid alloy tubing manufactured with reinforced alloys and hand crafted finishing for reliable corrosion resistant support in all terrains.

### Flip Out Transport Clips

Miller transport clips flip on and off the tripod in an instant for rapid set up or pull down.

### Above ground spreader

A versatile above ground spreader, designed for use with all toggle tripod models provides maximum stability for tripod mounting on uneven surfaces.

### Tripod leg spikes & Stay flat rubber feet

Dual stainless steel spikes for the field. Rubber feet with quick and easy pullover rubber stirrups for grip on smooth surfaces

### Accessories

390	MD pro dolly
391	LW pro dolly
550	Rubber feet (set of 3)
411	On ground spreader
508	Above ground spreader
835	DS tripod spreader

**402** (Above ground spreader model as shown)  
**402G** (Ground spreader model)  
**Toggle 2-stage tripod (alloy)**



25kg  
55lbs



3.0kg  
6.6lbs



390-1560mm  
15.4-61.4"



100mm  
3.9"



690mm  
27.2"



**Specifications:**

Leg extension	2-stage
Lock type	Toggle
Leg material	Alloy

**420** (Above ground spreader model)  
**420G** (Ground spreader model as shown)  
**Toggle 75 2-stage tripod (alloy)**



25kg  
55lbs



3.0kg  
6.8lbs



390-1560mm  
15.4-61.4"



75mm  
2.9"



690mm  
27.2"



**Specifications:**

Leg extension	2-stage
Lock type	Toggle
Leg material	Alloy

**440** (Above ground spreader model as shown)  
**440G** (Ground spreader model)  
**Toggle 75 LW tripod (alloy)**



20kg  
44lbs



2.5kg  
5.5lbs



620-1330mm  
24.4-52.4"



75mm  
2.9"



830mm  
32.7"



**Specifications:**

Leg extension	1-stage
Lock type	Toggle
Leg material	Alloy

**455**  
**Baby 2-stage tripod (alloy)**  
with spreader & case



25kg  
55lbs



2.8kg  
6.1lbs



250-520mm  
9.8-20.5"



100mm  
3.9"



350mm  
13.8"



**Specifications:**

Leg extension	2-stage
Lock type	Toggle
Leg material	Alloy

\*Tripods do not include spreader, dollies or rubber feet

# SPRINTER II TRIPODS

## SPEED WITHOUT COMPROMISE

The patented Sprinter II rapid dual action leg lock system is designed for operators who require speed of setup without compromising the flexibility of independent stage leg adjustment.

It is ideally suited to the fast pace of news gathering and documentary production that require lightweight, compact fast setup performance and easy for transporting and travel.

By placing independent leg lock levers adjacent to each other on the upper stage they can be operated in unison or independently from the same one location.

### In-line carry handle

Miller's unique in-line carry handle is perfectly positioned to help you safely and comfortably carry your Sprinter II over long distances.



### Rapid-action transport clips

Miller's robust transport clips flip on and off the tripod leg in an instant for rapid set-up or transport of your Sprinter II tripod.



### Lightweight and rigid construction

Sprinter II is built for ENG, fast to set-up with lightweight, yet rigid construction. The increased rigidity results from bowl to leg fastening, which resists loosening and eliminates joint instability and provides optimum torsional rigidity the most demanding pan actions.

### Easily accessible, high speed independent 2-stage dual leg locks

Miller's patented Sprinter II leg locks let you set-up the tripod in seconds. The easily accessible leg lock levers are co-located and can be operated independently.



### Mid level spreader

Adjustable center hub knob for smaller tripod footprints when required. Spreader latch and tripod swivel attachment prevents accidental damage.



### Easy to maintain leg locks

Tuning your leg lock strength is easy with one simple adjusting lock screw. Only one Allen key required to fine-tune the lock performance in the field.



### Tripod leg spikes & Stay flat rubber feet

Dual stainless steel spikes for the field. Rubber feet with quick and easy pullover rubber stirrups for grip on smooth surfaces.



**1576** (Mid level spreader model as shown)  
**1576G** (Ground spreader model)  
**Sprinter II 2-stage tripod (carbon fibre)**



45kg  
100lbs



3.2kg  
7.0lbs



440-1530mm  
17.3-60.4"



100mm  
3.9"



700mm  
27.6"



**Specifications:**

Leg extension	2-stage
Lock type	HS Dual Action
Leg material	Carbon fibre

**1580** (Mid level spreader)  
**1580G** (Ground spreader model as shown)  
**Sprinter II 2-stage tripod (alloy)**



45kg  
100lbs



3.8kg  
8.3lbs



440-1530mm  
17.3-60.4"



100mm  
3.9"



700mm  
27.6"



**Specifications:**

Leg extension	2-stage
Lock type	HS Dual Action
Leg material	Alloy

**1589** (Mid level spreader)  
**1589G** (Ground spreader model as shown)  
**Sprinter II 1-stage tripod (alloy)**



45kg  
100lbs



3.2kg  
7.0lbs



665-1430mm  
26.2-56.3"



100mm  
3.9"



840mm  
33.1"



**Specifications:**

Leg extension	1-stage
Lock type	HS Dual Action
Leg material	Alloy

**Accessories**

480	Studio dolly
481	Studio dolly with cable guards
483	Studio Tracker Dolly
475	Rubber feet (set of 3)
470	On ground spreader
993	Mid level spreader

\*Tripods do not include spreader, dollies or rubber feet

# HD TRIPODS

## HEAVY DUTY ENG/EFP

Built with the strength and torsion rigidity to take full ENG/EFP workloads even in extreme climates and temperatures the HD range of tripods are true workhorses which provide optimal stability and payload for the serious professional.

### Flip locks

Adjustable flip locks mean quick set-up and easy maintenance. The leg lock have been designed to be impact resistant and smooth with positive clamping every time.



### Rapid-action transport clips

Millers robust transport clips flip on and off the tripod leg in an instant for rapid set-up or transport of your HD tripod.



### 100 & 150mm Bowl

Die-cast alloy, reinforced 100 or 150mm bowl design for optimum torsional rigidity for the most demanding pan actions.



### Split Carry Handle

Miller's split carry handle splits apart when set up and combines for balance, safe carriage when the tripod is collapsed.



### Mid level spreader

Adjustable center hub knob for smaller tripod footprints when required. Spreader latch and tripod swivel attachment prevents accidental damage.



### Tripod leg spikes & Stay flat rubber feet

Dual stainless steel spikes for the field. Rubber feet with quick and easy pullover rubber stirrups for grip on smooth surfaces



### Accessories

480	Studio dolly
481	Studio dolly with cable guards
483	Studio Tracker Dolly
475	Rubber feet (set of 3)
478	HD rubber feet (set of 3)
993	Mid level spreader
2130	HD ground spreader

## 925

### HD 2-stage tripod (carbon fibre)



95kg  
210lbs



4.5kg  
9.9lbs



480-1590mm  
18.9-62.6"



100mm  
3.9"



750mm  
29.5"



#### Specifications:

Leg extension	2-stage
Lock type	Flip Lock
Leg material	Carbon fibre

## 931

### HD 1-stage tripod (alloy)



95kg  
210lbs



5.4kg  
11.9lbs



785-1575mm  
30.9-62.0"



100mm  
3.9"



930mm  
36.6"



#### Specifications:

Leg extension	1-stage
Lock type	Flip Lock
Leg material	Alloy

## 932

### HD 1-stage studio tripod (alloy)



95kg  
210lbs



4.7kg  
10.4lbs



590-1270mm  
23.2-50.0"



100mm  
3.9"



782mm  
30.8"



#### Specifications:

Leg extension	1-stage
Lock type	Flip Lock
Leg material	Alloy

## 935

### HD 1-stage mini tripod (alloy)



95kg  
210lbs



4.0kg  
8.8lbs



350-960mm  
13.7-37.7"



100mm  
3.9"



645mm  
25.3"



#### Specifications:

Leg extension	1-stage
Lock type	Flip Lock
Leg material	Alloy

\*Tripods do not include spreader, dollies or rubber feet

# HD TRIPODS

**937**

**HD 150 2-stage tripod (carbon fibre)**



95kg  
210lbs



4.6kg  
10.1lbs



520-1615mm  
20.5-63.6"



150mm  
5.9"



750mm  
29.5"



**Specifications:**

Leg extension	2-stage
Lock type	Flip Lock
Leg material	Carbon fibre

**943**

**HD 150 1-stage tripod (alloy)**



95kg  
210lbs



5.35kg  
11.8lbs



800-1590mm  
31.5-62.6"



150mm  
5.9"



940mm  
37.0"



**Specifications:**

Leg extension	1-stage
Lock type	Flip Lock
Leg material	Alloy

**944**

**HD 150 1-stage studio tripod (alloy)**



95kg  
210lbs



4.8kg  
10.6lbs



610-1280mm  
24.0-50.4"



150mm  
5.9"



790mm  
31.1"



**Specifications:**

Leg extension	1-stage
Lock type	Flip Lock
Leg material	Alloy

**945**

**HD 150 1-stage mini tripod (alloy)**



95kg  
210lbs



4.2kg  
9.25lbs



350-970mm  
14.6-38.2"



150mm  
5.9"



650mm  
25.6"



**Specifications:**

Leg extension	1-stage
Lock type	Flip Lock
Leg material	Alloy

\*Tripods do not include spreader, dollies or rubber feet

**2110G**  
HD MB 1-stage tripod (alloy)



95kg  
210lbs



5.9kg  
13.2lbs



737-1549mm  
29.0-61.0"



Mitchell base



946mm  
37.2"



**3350**  
HD tripod (alloy)



140.0kg  
308.7lbs



9.0kg  
19.8lbs



625-1310mm  
24.6-51.6"



Mitchell base



830mm  
32.7"



**Specifications:**

Leg extension	1-stage
HD Lock type	Quick action rotary screw
Leg material	Alloy

**Specifications:**

Leg extension	1-stage
HD Lock type	Rotary lock
Leg material	Alloy

**3350**  
HD studio tripod (alloy)



140.0kg  
308.7lbs



8.4kg  
18.5lbs



700-1100mm  
27.6-43.3"



Mitchell base



680mm  
26.8"

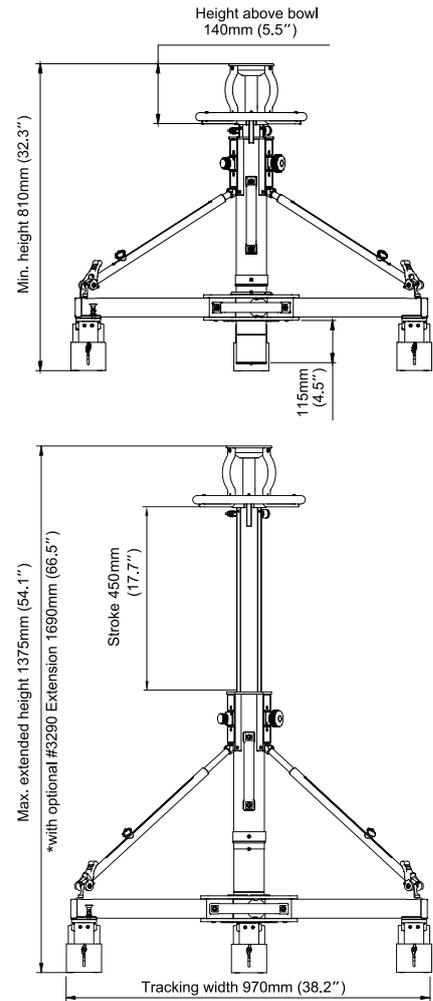


**Specifications:**

Leg extension	1-stage
HD Lock type	Rotary lock
Leg material	Alloy

\*Tripods do not include spreader, dollies or rubber feet

# 3220 COMBO LIVE 30 PEDESTAL



## COMPACT & PORTABLE LIVE SHOT

Miller Combo Live 30 pedestal offers light weight portability employing an air adjustable column system that delivers perfect camera balance with a height range of 810mm (31.8") up to 1690mm (66.5") with extension (opt.), precise, smooth, low noise in-shot 450mm (17.7") elevation stroke for payloads up to 30kg (66lbs).

Dual ball bearing wheels individually fitted with axial brakes deliver even and smooth effortless movement, featuring multiple wheel locking positions for linear or radius dolly tracking.

With its sturdy construction it delivers maximum stability with reliable and simple to use features.

This makes the Combo Live 30 Pedestal series a high performer offering perfect option for live broadcast studios looking for a versatile pedestal that punches above its weight.

Miller Combo Live 30 Pedestals come with a three year warranty, endorsing the reliability and **"THE RIGHT FEEL"** that are the hallmarks of every Miller product.

## Features

- Compact and portable with carry handle for column & dolly.
- Wide height range 810mm (31.8") up to 1690mm (66.5") with extension (opt.).
- Precise, smooth and low noise in-shot column with 450mm (17.7") stroke.
- Simple and easy to setup and use with drag control knob pressure column and lock lever pressure column.
- Air adjustable column system for quick payload balancing.
- Independent dolly wheel axle brake system eliminates wheel tyre indents.
- Multiple wheel positions for linear or radius dolly tracking.
- 125mm (4.9") dual ball bearing wheels for quick swivel-turn action.
- Center hub locking column with adjustable spider arm supports.
- Steering wheel diameter 294mm (11.6").
- Dolly tracking width 970mm (38.2").
- Sturdy adjustable cable guards.
- Portable hand pump with pressure gauge.

### Specifications - 3220

Weight Total	17.7kg (38.9lbs)
Weight Dolly	9.2kg (20.2lbs)
Weight Column	8.5kg (18.7lbs)
Payload range (column)	30.0kg (66.0lbs)
Column in-shot stroke	450mm (17.7")
Min. height	810mm (31.9")
Max. height	1375mm (54.1")
Max. height with extension (opt.)	1690mm (66.5")
Tracking width	970mm (38.2")
Steering wheel diameter	294mm (11.6")
Mounting base	Bowl type
Bowl diameter	Ø100mm (3.9")
Wheel diameter	Ø125mm (4.9")
Transport width (pedestal)	294mm (11.6")
Transport height (pedestal)	810mm (31.9")
Transport length (dolly)	785mm (30.9")

### Accessories:

*3290	Extension assembly 315mm (12.4")
3294	Weight bag 5.6kg (12.3lbs)

### 3250

#### System Arrow<sup>x</sup> 5 Combo Live 30 pedestal with 450mm in-shot stroke



2-21kg  
4.4-46.2lbs



21.8kg  
48.0lbs



100mm  
3.9"



972-1537mm  
38.2-60.5"



### Components:

1074	Arrow <sup>x</sup> 5 fluid head
696	2 x Pan handle - telescopic with clamp
3220	Combo Live 30 pedestal

### 3260

#### System Arrow<sup>x</sup> 7 Combo Live 30 pedestal with 450mm in-shot stroke



6-25kg  
13.2-55.1lbs



21.8kg  
48.0lbs



100mm  
3.9"



972-1537mm  
38.2-60.5"



### Components:

1076	Arrow <sup>x</sup> 7 fluid head
696	2 x Pan handle - telescopic with clamp
3220	Combo Live 30 pedestal

### 3801

#### System CX18 Combo Live 30 pedestal with 450mm in-shot stroke



0-16kg  
0-35.2lbs



20.2kg  
44.5lbs



100mm  
3.9"



972-1537mm  
38.2-60.5"



### Components:

1098	CX18 fluid head
679	Pan handle - fixed with clamp
3220	Combo Live 30 pedestal

# 3230 COMBO LIVE 55 PEDESTAL



## HIGH CAPACITY LIVE SHOT

Miller Combo Live 55 pedestal offers high payload capacity and light weight portability employing an air adjustable column system that delivers perfect camera balance with a height range of 790mm (31.1") up to 1670mm (65.7") with extension (opt.), precise, smooth, low noise in-shot 450mm (17.7") stroke for payloads up to 55.0kg (121.0lbs).

Dual ball bearing wheels individually fitted with axial brakes deliver even and smooth effortless movement, featuring multiple wheel locking positions for linear or radius dolly tracking.

With its sturdy construction it delivers maximum stability with reliable and simple to use features.

This makes the Combo Live 55 a clear stand-out high performer option for live broadcast studio operators looking for a versatile pedestal that punches above its weight.

Miller Combo Live 55 Pedestals come with a three year warranty, endorsing the reliability and **"THE RIGHT FEEL"** that are the hallmarks of every Miller product.

## Features

- Compact and portable with carry handle for column & dolly.
- Wide height range 790mm (31.1") up to 1670mm (65.7") with extension (opt.).
- Precise, smooth and low noise In-shot column with 450mm (17.7") stroke.
- Simple and easy to setup and use with drag control knob pressure column and lock lever pressure column.
- Air adjustable column system for quick payload balancing.
- Independent dolly wheel axle brake system eliminates wheel tyre indents.
- Multiple wheel positions for linear or radius dolly tracking.
- 125mm (4.9") dual ball bearing wheels for quick swivel-turn action.
- Center hub locking column with adjustable spider arm supports.
- Steering wheel diameter 494mm (19.4").
- Dolly tracking width 970mm (38.2").
- Sturdy adjustable cable guards.
- Portable hand pump with pressure gauge.

### Specifications - 3230

Weight Total	22.8kg (50.2lbs)
Weight Dolly	9.2kg (20.2lbs)
Weight Column	13.6kg (29.9lbs)
Payload range	55.0kg (121.0lbs)
Column in-shot stroke	450mm (17.7")
Min. height	800mm (31.5")
Max. height	1365mm (53.7")
Max. height with extension (opt.)	1680mm (66.1")
Tracking width	970mm (38.2")
Steering wheel diameter	494mm (19.4")
Mounting base	Mitchell base type
Wheel diameter	Ø125mm (4.9")
Transport width (pedestal)	494mm (19.4")
Transport height (pedestal)	790mm (31.1")
Transport length (dolly)	785mm (30.9")

### Accessories:

*3290	Extension assembly 315mm (12.4")
3294	Weight bag 5.6kg (12.3lbs)

### 3270

**System Skyline 70 Combo Live 55 pedestal**  
with 450mm in-shot stroke



4.5-37.5kg  
9.9-82.5lbs



30.1kg  
66.9lbs

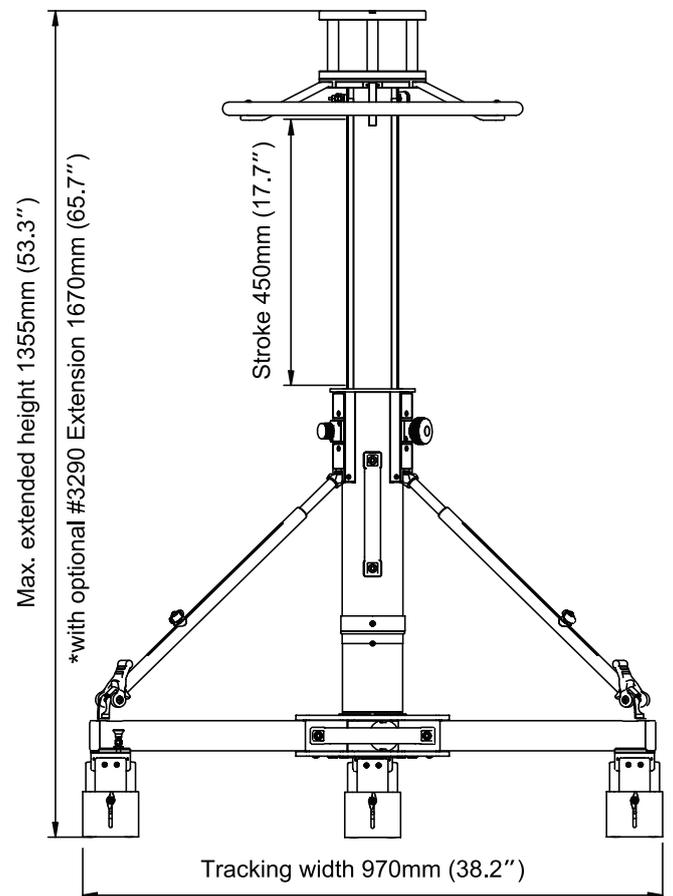
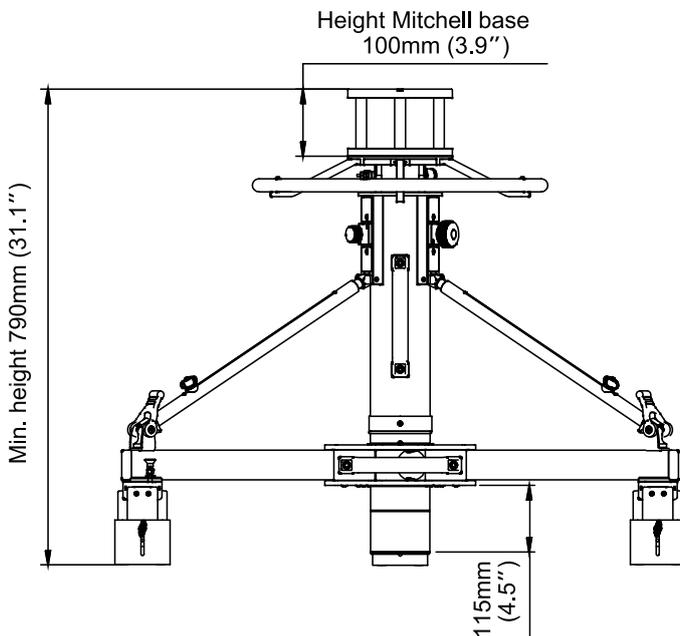


1024-1589mm  
40.3-62.6"



### Components:

1050	Skyline 70 fluid head
1225	Mitchell base adaptor with clamp
698	2 x Pan handle HD - telescopic with clamp
3230	Combo Live 55 pedestal



# 1960 COMBO PEDESTAL



## LIGHT WEIGHT & PORTABLE

Miller Combo pedestal offers light weight portability employing an air adjustable column system that delivers a 350mm (13.8") stroke for payloads up to 30kg (66lbs).

Sturdy construction brings maximum stability and reliability.

Simple to use features and easy setups augment the user experience.

This makes the Combo pedestal the clear stand-out choice for studio operators looking for a versatile pedestal that punches above its weight.

Miller Combo Pedestals come with a three year warranty, endorsing the reliability and "THE RIGHT FEEL" that are the hallmarks of every Miller product.

## Features

- Compact and portable with carry handle for dolly.
- Simple and easy to setup and use.
- Air adjustable column system for quick payload balancing.
- Quick action column lock.
- Smooth 350mm (13.8") stroke.
- Independent 125mm dolly wheel brake system.
- Sturdy adjustable cable guards.
- Steering wheel diameter 294mm (11.6").
- Dolly tracking width 920mm (36.2").
- Portable hand pump not included.

## Specifications - 1960

1950 Combo pedestal & 481 Studio dolly with cable guards

Weight Total	11.6kg (25.57lbs)
Weight Dolly	6.60 kg (14.6 lbs)
Weight Column	5kg (11.02 lb)
Payload range	30kg (66.1lbs)
Column stroke	350mm (13.8")
Min. height	1062mm (41.8")
Max. height	1412mm (55.6")
Tracking width	920mm (36.2")

Steering wheel diameter	294mm (11.6")
Mounting base	Ø100mm (3.9")
Wheel diameter	294mm (11.6")
Transport width (pedestal)	294mm (11.6")
Transport height (pedestal)	690mm
Transport length (dolly)	610mm (24")
Transport length (dolly)	785mm (30.9")

**1971**  
System Arrow<sup>x</sup> 3 Combo pedestal



1-19kg  
2.2-41.8lbs



18kg  
39.7lbs



100mm  
3.9"



1062-1412mm  
41.8-55.6"



**Components:**

1072	Arrow <sup>x</sup> 3 fluid head
696	2 x Pan handle - telescopic with clamp
1960	Combo pedestal

**1978**  
System Arrow<sup>x</sup> 5 Combo pedestal



2-21kg  
4.4-46.2lbs



18kg  
39.7lbs



100mm  
3.9"



1062-1412mm  
41.8-55.6"



**Components:**

1074	Arrow <sup>x</sup> 5 fluid head
696	2 x Pan handle - telescopic with clamp
1960	Combo pedestal

**1985**  
System Arrow<sup>x</sup> 7 Combo pedestal



6-25kg  
13.2-55.1lbs



18kg  
39.7lbs



100mm  
3.9"



1062-1412mm  
41.8-55.6"



**Components:**

1076	Arrow <sup>x</sup> 7 fluid head
696	2 x Pan handle - telescopic with clamp
1960	Combo pedestal

**3797**  
System CX10 Combo pedestal



0-12kg  
0-26.4lbs



18kg  
39.7lbs



100mm  
3.9"



1062-1412mm  
41.8-55.6"



**Components:**

1096	CX10 fluid head
696	2 x Pan handle - telescopic with clamp
1960	Combo pedestal

# SPREADERS & RUBBER FEET

## 411 On ground spreader to suit Toggle tripods



0.7kg  
1.5lbs



420mm  
16.5"



910 - 1310mm  
31.8" - 51.6"



- Quick and easy pullover rubber stirrups to secure tripod legs
- Safely adjust tripod legs to equal or preset distances
- Flexible spreader arms that self-adjust to uneven ground surfaces
- Quick extension of arm adjustment without detaching tripod leg from spreader

## 470 On ground spreader to suit Sprinter II tripods



0.65kg  
1.3lbs



445mm  
17.5"



910 - 1310mm  
31.8" - 51.6"



- Quick and easy pullover rubber stirrups to secure tripod legs
- Safely adjust tripod legs to equal or preset distances
- Flexible spreader arms that self-adjust to uneven ground surfaces
- Quick extension of arm adjustment without detaching tripod leg from spreader

## 508 Above ground spreader to suit Toggle 2-stage tripods



0.4kg  
0.88lbs



320mm  
12.5"



630 - 1060mm  
24.8" - 41.7"



- Quick and easy rubber tied spreader pins to secure tripod legs
- Safely adjust tripod legs to equal or preset distances.
- Above the ground for easy setup on steps, slopes or uneven and rocky terrain
- Quick telescopic arm adjustment without detaching tripod leg from spreader

## 835 DS tripod spreader to suit Toggle LW tripods



0.2kg  
0.44lbs



290mm  
11.4"



580mm  
22.8"



- Quick and easy rubber tied spreader pins to secure tripod legs
- Above the ground for easy setup on steps, slopes or uneven and rocky terrain

## 993 Mid level spreader to suit Sprinter II & HD tripods



0.79kg  
1.74lbs



320mm  
12.5"



600 - 1000mm  
23.6" - 39.3"



- Quick action spreader arm latches to attach or release from tripod
- Safely adjust tripod legs to equal or preset distances
- Adjustable center hub knob for smaller tripod footprints when required
- Spreader latch and tripod swivel attachment prevents accidental damage

## 2130 HD ground spreader to suit HD MB tripods



2.0kg  
4.4lbs



433mm  
17.04"



866 - 1346mm  
34.1" - 52.9"



- Solid robust all metal alloy construction for heavy duty use
- Quick and easy pullover rubber stirrups to secure HD tripod legs
- Easy extension of arm adjustment without detaching tripod leg from spreader
- Center hub knob to collapse and carry
- Spreader arm bolt holes for flat surface securing

## 475 Rubber feet (set of 3) to suit all Sprinter II & HD tripods



0.2kg  
0.44lbs



95 x 55mm  
3.7 x 2.1"



- Quick and easy pullover rubber stirrups to secure tripod legs
- Tough durable composite polymer
- Rubber foot pad for extra grip

## 550 Rubber feet (set of 3) to suit Toggle tripods



0.2kg  
0.44lbs



80 x 40mm  
3.15 x 1.6"



- Quick and easy pullover rubber stirrups to secure tripod legs
- Tough durable composite polymer
- Rubber foot pad for extra grip

# HI HATS, PRO & SOLO & STUDIO DOLLIES

**478**

**HD rubber feet (set of 3)**

to suit HD MB 1-stage tripod (alloy)



0.54kg  
1.2lbs



80 x 40mm  
3.15 x 1.6"

- Quick and easy pullover rubber stirrups to secure tripod legs
- Robust alloy construction for heavy duty use
- Rubber foot pad for extra grip



**465**

**Ø75 Hi hat**

with Ø75 tripod bowl



20kg  
44.1lbs



1kg  
2.2lbs



75mm



150mm  
5.9"



- 150mm ultra low bowl height
- Mount to flat surface with foot fixing holes
- 225mm footprint diameter

**466**

**Ø100 Hi hat**

with Ø100 tripod bowl



25kg  
55lbs



1kg  
2.2lbs



100mm



150mm  
5.9"

- 150mm ultra low bowl height
- Mount to flat surface with foot fixing holes
- 225mm footprint diameter



**467**

**Ø150 Hi hat**

with Ø150 tripod bowl



40kg  
88lbs



2.2kg  
4.8lbs



150mm



151mm  
5.9"



- 151mm ultra low bowl height
- Mount to flat surface with foot fixing holes
- 320mm footprint diameter

**390**

**MD pro dolly**

to suit Toggle 2-stage tripods



45kg  
99lbs



4.2kg  
9.3lbs

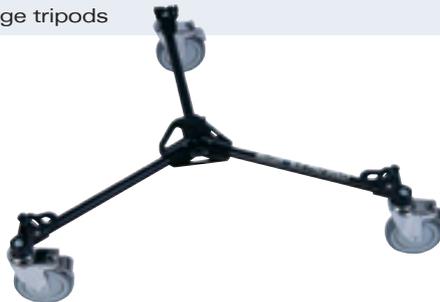


640mm  
25.2"



914mm  
36.0"

- Fast action folding arms
- Quick and easy pullover rubber stirrups to secure tripod legs
- 125mm smooth glide wheels
- Dual-lock wheel action
- Integrated carry handle
- Hi-strength black alloy construction



**391**

**LW pro dolly**

to suit Toggle LW tripods



25kg  
55lbs



2.6kg  
5.7lbs



560mm  
22.0"



914mm  
36.0"

- Fast action folding arms
- Quick and easy pullover rubber stirrups to secure tripod legs
- 75mm smooth glide wheels
- Dual-lock wheel action
- Integrated carry handle
- Hi-strength black alloy construction



# PRO, SOLO & STUDIO DOLLIES

**394**

**Solo dolly**

to suit all Solo tripods



25kg  
55lbs



2.5kg  
5.5lbs



560mm  
22.0"



914mm  
36.0"



- Fast action folding arms
- Quick and easy pullover rubber stirrups to secure tripod legs
- 75mm smooth glide wheels
- Dual-lock wheel action
- Integrated carry handle
- Hi-strength black alloy construction

**480**

**Studio dolly**

to suit Sprinter II & HD tripods



100kg  
220lbs



6.2kg  
13.7lbs



610mm  
24.0"



1072mm  
42.2"



- Fast action self locking folding arms
- Quick and easy pullover rubber stirrups to secure tripod legs
- 125mm smooth precision glide wheels
- Dual-lock wheel action
- Integrated carry handle
- Hi-strength black alloy construction

**481**

**Studio dolly with cable guards**

to suit Sprinter II & HD tripods with cable guards



100kg  
220lbs



6.6kg  
14.6lbs



610mm  
24.0"



1072mm  
42.2"



- Adjustable cable guards
- Fast action self locking folding arms
- Quick and easy pullover rubber stirrups to secure tripod legs
- 125mm smooth precision glide wheels
- Dual-lock wheel action
- Integrated carry handle
- Hi-strength black alloy construction

**483**

**Studio tracker dolly with cable guards & tracking**

to suit Sprinter II & HD tripods with cable guards



100kg  
220lbs



6.9kg  
15.2lbs



610mm  
24.0"



1072mm  
42.2"



- Independent track-wheel-locking
- Adjustable cable guards
- Fast action self locking folding arms
- Quick and easy pullover rubber stirrups to secure tripod legs
- 125mm smooth precision glide wheels
- Dual-lock wheel action
- Integrated carry handle
- Hi-strength black alloy construction

**3222**

**HD dolly**

to suit HD & Sprinter II tripods



200kg  
440.9lbs



9.5kg  
20.9lbs



760mm  
29.9"



1120mm  
44.1"



- Compact and portable with carry handle
- Independent dolly wheel axle brake system eliminates wheel tyre indents.
- Multiple wheel positions for linear or radius dolly tracking.
- 125mm (4.9") dual ball bearing wheels for quick swivel-turn action.
- Sturdy adjustable cable guards.
- Quick fold away design.
- Suited for Miller HD and Sprinter II Tripods

**3225**

**HD Tripod dolly**

to suit HD studio tripod (3354)



200kg  
440.9lbs



10.1kg  
22.3lbs



760mm  
29.9"



1120mm  
44.1"



- Independent track-wheel-locking
- Adjustable cable guards
- Fast action self locking folding arms
- Quick and easy pullover rubber stirrups to secure tripod legs
- 125mm smooth precision glide wheels
- Dual-lock wheel action
- Integrated carry handle
- Hi-strength black alloy construction

# CASES

## Softcase (3500, 3502 & 3514):

- Durable double cross stitched construction.
- Tripod cradles (top and bottom) with clip straps for secure transportation.
- Back pack straps with storage pocket (3500 & 3502).
- Outer shell is made from robust ballistic nylon.
- Hard plastic skid pads for protection.
- D links for shoulder strap.
- External pocket and card holder.

## Shellcase (3534):

- Durable double cross stitched construction.
- Tripod padded cradles inside (top and bottom) with clip straps for secure transportation.
- Wide set transport wheels (340mm).
- Outer fabric is made from robust ballistic nylon.
- Foam is lined with HDPE for added rugged outer protection.
- Hard plastic skid pads for protection.
- External pocket and card holder.

## Head case (396 & 3348):

- All hi-strength welded alloy construction with corner protectors
- High density molded foam for full head protection
- Wide set transport wheels (340mm).
- Carry handle & with lockable latch.

## Smartcase (3610, 3612 & 3615):

- Watertight (IP67), resistant to dust, moisture, acids and sand.
- Ergonomic handle made of PP SEBS material with steel pins to provide a strength and ergonomics.
- Automatic valve which automatically adjusts the air pressure inside.
- Internal O-ring made of neoprene PA66 makes the suitcase totally waterproof.
- Materials: made of a patented material given by a special compound based on polypropylene TTX01, glass fiber and rubber.
- The temperature range is guaranteed -40° C (40° F) up to +80° C (+176° F).

### 3348

**Skycine 90 head case (alloy)**  
to suit Skycine 90 fluid head



11.8kg  
26.0lbs



550 x 390 x 520mm  
21.7 x 15.4 x 20.5"



### 396

**Skycine 70 head case (alloy)**  
to suit Skyline 70 & Cineline 70 fluid heads



5.8kg  
12.7lbs



320 x 350 x 410mm  
12.5 x 13.7 x 15.1"



### 3500

**Arrow<sup>x</sup> softcase 1-stage**  
to suit Sprinter II 1-stage tripod systems



4.8kg  
10.6lbs



1110 x 260 x 320mm  
43.7 x 10.2 x 12.6"



### 3502

**Arrow<sup>x</sup> softcase 2-stage**  
to suit Sprinter II & Toggle 2-stage tripod systems



4.4kg  
9.7lbs



960 x 260 x 320mm  
37.8 x 10.2 x 12.6"



### 3512

**Softcase 1-stage**  
to suit Toggle 1-stage tripod systems



1.4kg  
3.1lbs



260 x 240 x 1070mm  
10.2 x 9.5 x 42.1"



### 3514

**Softcase 2-stage**  
to suit Toggle 2-stage tripod systems



1.2kg  
2.7lbs



930 x 260 x 240mm  
36.6 x 10.2 x 9.5"



# CASES, SOLO LEG COVERS & SOLOPOD

## 3534

### Shell case with wheels

to suit Sprinter II & HD tripod systems



6.8kg  
15.0lbs



1110 x 270 x 340mm  
43.7 x 10.6 x 13.4"



## 3610

### Smart case (short)

to suit Solo, Toggle & Sprinter 2-stage tripod systems



6.2kg  
13.7lbs



285 x 335 x 970mm  
11.2 x 13.2 x 38.2"



## 3612

### Smart case (medium)

to suit Toggle, Sprinter 1-stage & HD 2-stage tripod systems



6.8kg  
14.9lbs



285 x 335 x 1128mm  
11.2 x 13.2 x 44.4"



## 3615

### Smart case (long)

to suit HD 1-stage tripod systems



7.7kg  
17.0lbs



285 x 335 x 1330mm  
11.2 x 13.2 x 52.4"



## 3380

### Hexagonal transport case

to suit HD tripod (#3350)



5.2kg  
11.5lbs



280 x 780mm  
11.0 x 30.7"



## 1590

### D36 Solo leg cover (set of 3)

to suit all Solo tripods



0.21kg  
0.5lbs



320 x 175mm  
12.59 x 6.88"



## 311

### Solopod

with reversible 3/8" - 1/4" screw and swivel foot



10kg  
22lbs



0.8kg  
1.8lbs



560mm  
22.5"



1735mm  
66.3"



- Ultra light carbon fibre tube design
- Sturdy reliable operation
- 3 Stage rapid lock extensions
- Carry strap for transport
- Non-skid rubber foot with swivel action

# STRAPS & CAMERA PLATES

**554**

**Shoulder strap (padded)**

to suit all Toggle tripods & softcases



0.2kg  
0.4lb



1100mm  
43.3"



800mm  
31.5"



- Safety spring latch attaches to all 75mm and 100mm toggle tripods
- In-line slide buckle adjustment
- Ergonomic padded shoulder support
- Weatherproof cordura, nylon & neoprene materials with anti-corrosive buckles

**1520**

**Solo shoulder strap (Aircell)**

to suit all Solo tripods



0.2kg  
0.4lbs



806mm  
31.7"



806mm  
31.7"



- Safety spring latch attaches to all 75mm and 100mm Solo tripods
- In-line slide buckle adjustment
- Ergonomic 'Padded Cell' AIR-bubble shoulder support
- Weatherproof cordura, nylon & neoprene materials with anti-corrosive buckles

**858**

**Offset camera plate**

to suit additional offset camera payloads



0.25kg  
0.55lbs



160 x 80 x 7.5mm  
6.2 x 3.1 x 0.29"



2 x 3/8" screws



**860**

**Camera plate (Euro)**

to suit Compass 25, Arrow<sup>®</sup> 3, 5 & 7, Arrow 25, 40 & 55 fluid heads



0.08kg  
0.17lbs



79.5 x 65 x 6mm  
3.1 x 2.5 x 0.23"



1/4" & 3/8" screws



**1060**

**Camera plate (Large Euro)**

to suit Skyline 70 fluid heads



0.18kg  
0.39lbs



120 x 80 x 7.4mm  
4.7 x 3.1 x 0.29"



2 x 3/8" screws



**1065**

**Camera plate (Arri)**

to suit Cineline 70 fluid heads



0.60kg  
1.322lbs



260 x 95.5 x 11.7mm  
10.2 x 3.75 x 0.46"



2 x 3/8" screws



**1204**

**Camera plate**

to suit AIR, DS10 & 20, Compass 12, 15 & 23 fluid heads



0.07kg  
0.154lbs



120 x 48.5 x 8mm  
4.7 x 1.9 x 0.31"



Std 1/4" screw and pin  
1/4" and 3/8" screws



**1208**

**Camera plate (Mini Euro)**

to suit Compass 20 fluid heads



0.05kg  
0.11lbs



62 x 48.5 x 6mm  
2.4 x 1.9 x 0.23"



1/4" and 3/8" screws



# PAN HANDLES

**681**

**Pan handle - fixed with clamp**

to suit DS10 & 20 fluid heads



0.25kg  
0.55lbs



390mm  
15.4"



- Supplied with grey handle carrier
- Durable black anodised aluminium tubing
- Material alloy/rubber

**682**

**Pan handle - fixed with clamp**

to suit AIR fluid head



0.26kg  
0.57lbs



390mm  
15.4"



- Supplied with Black handle carrier
- Durable black anodised aluminium tubing
- Material alloy/rubber

**679**

**Pan handle - fixed with clamp**

to suit Compass<sup>®</sup> fluid heads



0.28kg  
0.61lbs



390mm  
15.4"



- Durable hi-strength black alloy tubing
- Comfortable rubber pan handle grip

**696**

**Pan handle - telescopic with clamp**

to suit Arrow<sup>®</sup> fluid heads



0.38kg  
0.83lbs



390mm  
15.4"



590mm  
23.2"



- 200mm telescopic extension
- Durable hi-strength black alloy tubing
- Comfortable rubber pan handle grip
- Long clamp lever

**698**

**Pan handle (HD) - telescopic with clamp**

to suit Skyline 70 and Cinline 70 fluid heads



0.46kg  
1.01lbs



430mm  
16.9"



630mm  
24.8"



- 200mm telescopic extension
- Extra heavy duty rigid black alloy tubing
- Comfortable rubber pan handle grip
- HD metal clamp lever

**3342**

**Tele handle rod**

to suit Skyline 90 fluid head



1.0kg  
2.2lbs



520-710mm  
20.5-28.0"



- Extendable by 190mm (7.5").
- To Suit Skyline 90 Fluid head.

**1230**

**Pan handle - articulated with extender**

to suit Cinline 70, Skyline 70 and Arrow<sup>®</sup> fluid heads



0.72kg  
1.59lbs



380mm  
15.0"



- Multi positional pan handle grip
- Includes 1234 pan handle short grip for dual control
- Includes 1238 serrated handle clamp extender

**1234**

**Pan handle - short grip**

to suit Cinline 70, Skyline 70 and Arrow<sup>®</sup> fluid heads



0.39kg  
0.86lbs



210mm  
8.3"



- Short grip for greater control
- Durable hi-strength black alloy tubing
- Comfortable rubber pan handle grip

# ADAPTORS

**378**

**Ø100 - Ø75 tripod bowl adaptor**

to suit Ø75 fluid heads



0.08kg  
0.2lbs



- Convert 100mm tripod bowl to suit 75mm ball levelling heads

**1214**

**QR adaptor plate**

to suit Solopod & flat base mounting



10kg  
22lbs



0.33kg  
0.7lbs



104 x 86 x 73mm  
4.09 x 3.38 x 2.87"



- Quick release sliding camera plate with 70mm travel
- Flat base mounting with 1/4" and 3/8" screw holes

**1223**

**Front box adaptor**

to suit Celine 70 & Skyline 70 fluid heads



5.0kg  
11.0lbs



0.36kg  
0.79lbs



104 x 86 x 73mm  
4.09 x 3.38 x 2.87"



- To mount camera operators accessory front box
- Hi-strength black alloy construction
- 1/4" & 3/8" accessory screw holes

**1238**

**Serrated handle clamp extender**

to suit Celine 70, Skyline 70 and Arrow<sup>x</sup> fluid heads



0.12kg  
0.26lbs



50mm  
2.0"



- 50mm extension
- 1/4" and 3/8" accessory screw holes

**3346**

**Mitchell Centre Screw & Nut Assembly**

to suit Skyline 90 fluid head



0.32kg  
0.71lbs



- Allows Skyline 90 Fluid head to be attached to any Mitchell base.
- 6 x M5 screws locate the screw thread

**493**

**1/4" Screw & pin carriage**

to suit all camera plate with 1/4" screw & pin carriage



27.5 x 13.5mm  
1.08 x 0.53"



Std 1/4"  
and pin



- Industry standard 1/4" & pin, fits all standard Miller Camera plates
- Direct-to-camera base for Mini DV camcorders

**1217 Accessory mounting adaptor 1/4" & 3/8"**

**1218, 1219 & 1221 Accessory mounting bracket**

to suit Compass<sup>x</sup>, Arrow<sup>x</sup>, Skyline & Celine



3.0kg  
6.6lbs



0.037kg  
0.08lbs



40 x 20 x 20mm  
1.57 x 0.78 x 0.78"



- 1217 with 1/4" & 3/8" accessory screw holes to suit 1218, 1219 & 1221
- 1218 to suit all Compass<sup>x</sup> fluid heads
- 1219 to suit all Arrow<sup>x</sup> fluid heads
- 1221 to suit Skyline & Celine fluid heads
- Hi-strength black alloy construction

**1225**

**Mitchell base adaptor with clamp**

to suit Arrow<sup>x</sup>, Skyline 70 & Celine 70 fluid heads



0.82kg  
1.8lbs



Ø174mm  
6.9"



- Easy to fit with 3 screws supplied
- Adjustable clamp to suit all flat base tripods
- Hi-strength black alloy construction

**2092**

**Accessory adaptor**

to suit AIR fluid head



0.012kg  
0.026lbs



24 x 24 x 20mm  
0.94 x 0.94 x 0.787"



- 1/4" adaptor screw hole for accessory mounting

# SLIDING PLATES

## 1206X

### Sliding plate assembly (Mini Euro)

to suit Compass & Compass<sup>®</sup> fluid heads



0.26kg  
0.57lbs



160 x 80 x 36mm  
6.2 x 3.1 x 1.4"

- For 1208 Camera plate (Mini Euro)



## 1210X

### Sliding plate assembly (Euro)

to suit Compass & Compass<sup>®</sup> fluid heads



0.30kg  
0.66lbs



150 x 80 x 30mm  
5.9 x 3.1 x 1.1"

- For 860 Camera plate (Euro)



## 3336

### Wedge plate assembly

to suit Skyline 90 fluid head



0.26kg  
0.57lbs



160 x 80 x 36mm  
6.2 x 3.1 x 1.4"

- Designed for the Skyline 90 fluid Head
- Fits standard wedge plate fixtures.
- With 2 x 3/8" screws for camera rig mounting



# CAMERA SCREWS

## P0036

### 1/4" Camera screw

to suit all Miller fluid heads



## P3459

### 1/4" Camera screw short

to suit all Miller fluid heads



## P0037

### 3/8" Camera screw short

to suit all Miller fluid heads



## P0876

### 1/4" to 3/8" camera screw

to suit Solopod 311



# KEY SYMBOLS

Payload range



Minimum width



Weight



Maximum width



Height range



Minimum height



Bowl diameter



Maximum height



Transport length



Maximum payload capacity



Footprint diameter



Dimensions



Diameter range



Attachment



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1050	Skyline 70 fluid head	Ø150 ball base, to suit payload range 4.5-37.5kg (9.9-82.5lbs)	56
1055	Cinline 70 fluid head	Ø150 ball base, to suit payload range 4.5-37.5kg (9.9-82.5lbs)	62
1060	Camera plate large (Euro)	to suit Skyline 70 fluid head with 2 x 3/8" screws	91
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1072	Arrow <sup>®</sup> 3 fluid head	Ø100 ball base, to suit payload range 1-19kg (2.2-41.8lbs)	42
1074	Arrow <sup>®</sup> 5 fluid head	Ø100 ball base, to suit payload range 2-21kg (4.4-46.2lbs)	46
1076	Arrow <sup>®</sup> 7 fluid head	Ø100 ball base, to suit payload range 6-25kg (13.2-55.1lbs)	50
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The Miller Camera Support Equipment Product Catalogue provides summary details of the components and options available for Miller system packages. For more detailed product descriptions, applications and technical information, please visit [www.millertripods.com](http://www.millertripods.com)

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