

The Magnum Dolly System



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It's important to understand, that the main focus during the designing process of the Magnum Dolly was targeted on the idea of a system. With no other dolly this thought was tracked and realised so consequently. Thereby the Magnum Dolly is characterised by its enormous flexibility, equalled by no other dolly.

Fundament of the system is the Basic Dolly. It is quick and easy to transport and to assemble and offers all the advantages of expanded system assemblies:

- The patented steering mechanism (s. page 6)
- The integrated rotatable bearing, which allows each fixture mounted on it, to be panned 360°.
- The quick removeable combi-wheels
- The high quality machining (no castings)
- The most advanced surface coating
- ...and most important the wide expandability



The Magnum Dolly Increasing with its tasks



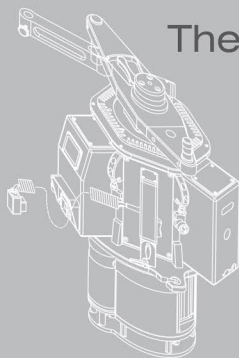
At the very beginning there is the basic dolly which is a fully functional dolly



...as shown here with base plate and bazooka it can be quick and easily assembled for shooting.



Here it comes – the big difference and advantage: The removeable electromechanical column!



The heart of movement

...is the electromechanical column. It can be mounted on the chassis of the Basic Dolly within seconds. Per rotatable bearing the column can also be panned 360°. By the way, this option has also been patented.

The column is battery operated, or alternatively by the Mains Charger Unit. This unit has an automatic switchover from 110 to 220 V as well as 24 or 48 voltage supply.

The column is controlled by a Hand Control Unit, optionally by a Wireless Manual Control Unit. Please find more information about the features of this unit in following pages.



The Magnum Duo Jib is a really powerful creative tool. With 250 kg/550 lbs max. payload (standard mode), 272 cm/ 8'11" max height (Euro adapter) and 165 cm/5'5" lift range it is the ideal film equipment to cover most of the camera settings.

Thanks to the rotatable bearing and the tremendous precision of the column, perfect smooth movements are guaranteed. Thereby, like the other Magnum System Parts, the Duo Jib is extremely portable and easy to set-up.

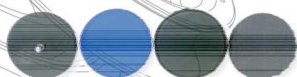
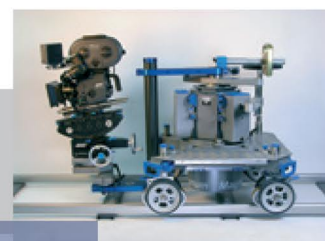
big difference and
eable electromech-

With the electromechanical column the Magnum becomes a highly sophisticated creative tool.

Depending on your needs you can extend it with a variety of camera mounts up to a Duo Jib or even the Movie Tech camera crane "Felix".

The Magnum Dolly Accessories

The Magnum Accessory Program follows the Magnum Dolly System idea. Each part has been considered and acts to make the system even more flexible. In this brochure only a choice of accessories is pictured. You are asked to download the complete accessory catalogue from our website: www.movietech.de



Round Seat/Seat Cushion



Range of Seat Arms



Steering Rod short



Steer out



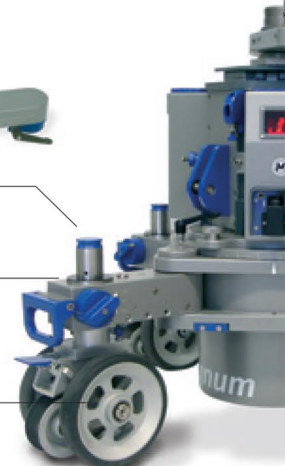
Various Special Accessories



Diverse Platforms



Pneumatic/Soft/Studiowheels





U-Bangi



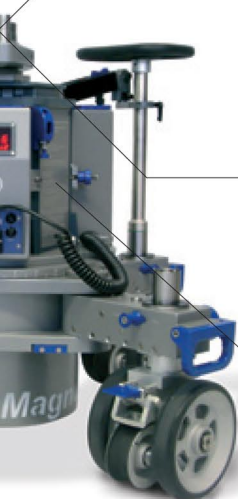
MiniJib arm



System Low Rig



Low Rig



Bazooka



Diverse Ball Adaptors



Range of Bazookas



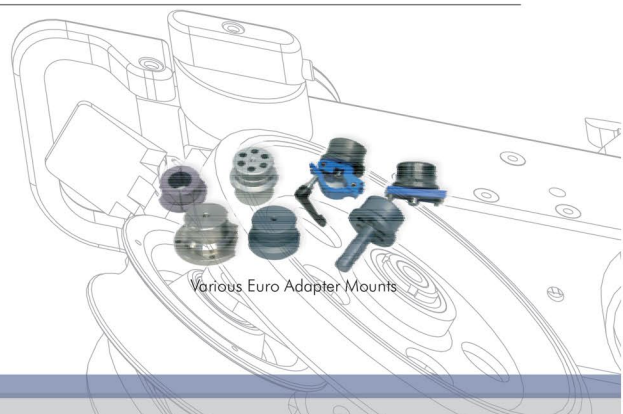
Mini Low Rig



Wireless manual control unit



Power Supply/Accu/Charger Station



Various Euro Adapter Mounts

The Magnum Dolly Perfect in every detail



In close cooperation with directors, cinematographers and other specialists, Movie Tech developed this outstanding tool. Every detail is designed taking into consideration user-friendliness, quality and long life cycle.

The Hand Control Unit is like a conductor's baton

All movements and functions of the column are controlled by the Hand Control Unit. Thereby the 4 programming channels are most significant for creativity.

So for example, the lift range can be restricted with **channel 0** (important when using the Duo Jib or Felix Crane in rooms with limited heights).

With **channel 1** up to 30 positions can be recorded with a constant set speed between positions.

With **channel 2** this speed can be completely manually operated and adjusted.

Channel 3 offers the possibility to record and repeat a sequence of 15 min. of dolly activities, including pauses, variable speeds and direction changes in realtime.

Drive Ramp Selection

Acceleration and deceleration of a movement can be modified on the Magnum Dolly by use of 4 different ramps according to the requirements or set-up.

From ramp 1 (acceleration 100%) for very fast acceleration or deceleration to ramp 4 (acceleration 60%) for absolute precise and smooth movements for example when using the Duo Jib.



...some of the improvements

Steering Mechanism

Thanks to a perfect **Steering Mechanism** the Magnum Dolly is adaptable to every situation. You can use either the 2 or the 4 wheel steering, whereas each of the combi-wheels has its own dedicated 3 stage steering mechanism:

CRAB: Each wheel is connected to the steering system (automatic wheel alignment, no manual resetting)

FREE: The individual combi-wheel is disconnected from the steering system (i.e. for use on track)

FIXED: Setting of each combi-wheel at selected angles of 45° which enables a variety of wheel configurations (wheel locking bars are not necessary)



Due to the redesigned seat arm adjustment the operator gets much more freedom of movement. To adjust the seat bottom-up you have only to pull up the seat. To adjust the seat top down you have to pull at the blue pin. The wear-resisting sliding bearing consists of high-alloy steel.



The wheelmount (dovetail connection) has an additional screw connection which enables an interlock without tolerance.



Studio wheels now with grinded coating. The durability of the track wheels has been extended thanks to a new rubber compound. The studio wheels have grinded coating and thereby much better operating characteristics.



New brake system for studio and track wheel. In its latest version the Magnum Dolly has a new (combination) brake, which arrests the track wheel as well as the studio wheel. Thereby the Dolly can be fixed much faster.



The picture may give you an impression, how flexible the chassis of the Magnum Dolly can be used and thanks to the adjustable wheel-arms, a wide range of wheel configurations are possible. In practice, the change-over between, for example a standard to a narrow gauge or viceversa, is absolutely quick and easy. An automatic safety lock ensures fixed positioning of the wheel arms in each standard setting and eliminates the possibility of unwanted movements.

Highest Quality Functionality Security

...are the targets we are striving for. During the designing and manufacturing process, we are using the latest CAD and CNC technologies.

This mode of operation paired with the experience of our highly qualified employees guarantee you film equipment which meets even the highest standards.



The Magnum Dolly Technical Specifications



The
Magnum Column

Weight of Magnum Column:	78 kg/171 lbs
Transport size:	Length: 64 cm/2'1"
(assembled)	Width: 64 cm/2'1"
	Height: 80 cm/2'7"
Max. current consumption	30 A
Battery performance when fully charged:	approx. 150
Charge cycle with Mains/Charger Unit:	1 A = 8 hrs.
	5 A = 3 hrs.

Mains/Charger Unit with automatic voltage selection and overload protection:	110-220 V
Battery voltage:	24 V/48 V
Battery capacity	8 Ah/16 Ah

Basic Dolly



Weight:	62 kg/136 lbs
Transport dimensions	
Length:	64 cm/2'1"
Width:	64 cm/2'1"
Height:	37 cm/12.5"
Max. Payload Capacity:	1000 kg/2200 lbs
Track width: maximum:	62 cm/2'
minimum:	36 cm/12"

Magnum Dolly with Mini Jib Arm



Max. Payload Capacity:	80 kg/176 lbs
Max. Height (euro adapter):	235 cm/7'9"
Min. Height (euro adapter):	70 cm/2'3"
Min. Height with	
Mini Low Rig:	9 cm/3"
Lift range:	165 cm/5'5"

Magnum Dolly with Electromechanical Column



Max. Payload Capacity	
Column extended:	300 kg/660 lbs
Max. Payload Capacity	
Column retracted:	800 kg/1763 lbs
Max. Height (euro adapter):	148 cm/4'10"
Min. Height (euro adapter):	80 cm/2'7"
Lift range:	68 cm/2'4"
Fastest time through	
column lift range:	3,1 sec./48 V
	4,5 sec./24 V

Magnum Dolly with System Low Rig



Max. Payload Capacity	130 kg/286 lbs
Max. Height (euro adapter):	78 cm/2'6"
Min. Height (euro adapter):	10 cm/4"
Lift range:	68 cm/2'4"

Magnum Dolly with Duo Jib



Max. Payload Capacity	
with High Rig mode:	200 kg/440 lbs
with Low Rig mode:	220 kg/484 lbs
Standard mode:	250 kg/550 lbs
Max. Platform Height	
(euro adapter):	272 cm/8'11"
Min. Platform Height	
(euro adapter):	26 cm/10"
Lift range:	150 cm/4'11"

Magnum Dolly with Felix Crane System (Mini)



Max. Payload Capacity:	60 kg/132 lbs
Max. Platform Height:	215 cm/7'
Lift range:	148 cm/4'10"

