## Technical Specifications

**The Magnum Dolly System**

**Unlimited freedom of creativity**

### Basic Dolly
- **Weight:** 62 kg / 136 lbs
- **Transport dimensions:**
  - **Length:** 64 cm / 2'1"
  - **Width:** 64 cm / 2'1"
  - **Height:** 97 cm / 3' 2"
- **Max. Payload Capacity:** 62 kg / 136 lbs
- **Track width:** minimum: 36 cm / 1' 2"

### Magnum Dolly with Mini Jib Arm
- **Max. Payload Capacity:**
  - **Column extended:** 300 kg / 660 lbs
  - **Column retracted:** 148 cm / 4' 10"
- **Lift range:** 3.1 sec. / 48 V

### Magnum Dolly with Electro-mechanical Column
- **Max. Payload Capacity:**
  - **Column extended:** 130 kg / 286 lbs
  - **Column retracted:** 78 cm / 2' 6"
- **Lift range:** 6.8 sec. / 24 V

### Magnum Dolly with System Low Rig
- **Max. Payload Capacity with High Rig mode:** 220 kg / 484 lbs
- **Max. Payload Capacity with Low Rig mode:** 250 kg / 550 lbs
- **Max. Platform Height (euro adapter):**
  - Standard mode: 272 cm / 8' 11"
  - Low Rig mode: 70 cm / 2' 3"
- **Lift range:** 17.5 sec. / 3" 9 cm / 3" 9 cm / 3"

### Magnum Dolly with Duo Jib
- **Max. Payload Capacity:**
  - **with High Rig mode:** 250 kg / 550 lbs
  - **with Low Rig mode:** 220 kg / 484 lbs
- **Standard mode:**
  - **Max. Platform Height:** 272 cm / 8' 11"
- **Max. Payload Capacity (euro adapter):**
  - Lift range: 66 cm / 2' 2"

### Magnum Dolly with Felix Crane System (Mini)
- **Max. Payload Capacity:** 80 kg / 176 lbs
- **Max. Platform Height:** 215 cm / 7' 9"
- **Lift range:** 68 cm / 2' 2"

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**The Magnum Column**

- **Weight of Magnum Column:** 58 kg / 129 lbs
- **Transport dimensions:**
  - **Length:** 64 cm / 2' 1"
  - **Width:** 64 cm / 2' 1"
- **Height:** 80 cm / 2' 7"
- **Max. current consumption:**
  - 20A / 450V
- **Charge cycle with Mains/Charger Unit:**
  - 5A / 2 hours
  - 1A / 10 hours
- **Battery performance when fully charged:**
  - Mains/Charger Unit with automatic voltage selection and overload protection:
    - Battery voltage: 24 V / 48 V
    - Battery capacity: 78 Ah / 160 Ah

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The Magnum Dolly System

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 consequently. Thereby the Magnum Dolly is characterised by its enormous flexibility, equalled by no other dolly.

Fundamental 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 integrated variable bearing, which allows each fixture mounted on it, to be panned 360°
- The quick removable 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 removable electromechanical column!

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 heart of movement

...is the electromechanical column. It can be mounted on the chassis of this Basic Dolly, with a column, the rotating bearing the column can also rotate 360°. In this way, the option has also been patented.

There are two possibilities to charge it, automatically 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 informations 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 model), 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. Thence, like the other Magnum system parts, the Duo Jib is extremely portable and easy to set up.
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.
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 longevity.

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The Hand Control Unit is like a conductor's baton. All movements and functions of the column are controlled by the Hand Control Unit. Thus the 4 programming channels are most significant for creativity.

Drive Ramp Selection

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

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

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...some of the improvements

Due to the redesigned seat arm adjustment, the operator gets much more freedom of movement. To adjust the seat bottom-up you have to pull the pin at the back of the seat. To adjust the seat top down you have to pull at the blue pin. Thus, the wear-resistant sliding bearing consists of high-quality steel.

The wheel mounting (slotted connection) has an additional screw connection which enables an interlock without tolerance.

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 4 wheel format orворику, is absolutely quick and easy.

The wheel mount (slotted connection) has an additional screw connection which enables an interlock without tolerance.

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.

- Channel 0: Each wheel is connected to the steering system (automatic wheel alignment, no manual resetting)

- Channel 1: Free: The individual wheel is allowed to rotate freely (variable speed on track)

- Channel 2: Fixed: Setting of each combi-wheel at selected angles of 45° which enables a variety of wheel configurations (wheel locking bars are not necessary)

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- Drive ramp selection

- Acceleration and deceleration of a movement can be modified on the Magnum Dolly by use of different ramps according to the requirements 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 Ducane 6.

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