The Talos Motion Control Rig

- Fits through standard doorways
- Extremely Rigid
- Lightweight
- Runs FLAIR

The Talos is one of the most compact, light-weight, portable live-action rigs designed for motion control.

This latest design by the Academy Award winning Milo design team incorporates all the unique concepts, knowledge and skills giving you the best performance possible in a compact motion control rig.

The high strength precision ground Ballscrew gives the lift axis precision and velocity to exceed live action speeds.

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The Talos's ability to access a standard doorway (without the need for dismantling) which other rigs might find an obstacle has been carefully considered.

The Talos can be transported whole or in easy to dismantle sections that can be packed in flight cases. When shipped in its main component parts it can be set-up by two people and ready for action in about 45-60 minutes.

The Rotate and Pan use slip-rings for all the electrical ways to allow freedom of movement and unlimited rotation.

Extensive safety features have been built into the rig and software.

The high speed brushless servo motors with optical encoders ensure high speed and repeatable precision.

A standard Talos has 8 axes expandable to 32

The fabrications are built using a highly specified type of lightweight aluminum. The construction has undergone Finite Element Analysis (FEA) to ensure complete rigidity. All mechanical parts are anti-corrosive and able to withstand variable climate conditions.

The Talos has an excellent range of movement for its compact size. Controlled by Flair motion control software with all the Award winning features that facilitate ease of use and flexibility.

The Talos utilises the popular Ulti-Head which has the ability and additional benefit to be removed for use as a stand alone MOCO or Remote head.

The head is reversible in the vertical axis and can quickly be changed from under-slung to over-slung allowing maximum flexibility in the minimum and maximum achievable lens heights.

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Simple and light-weight power and data umbilical.

Precision linear re-circulating bearings used on the Track and Rotate axes allow smooth, fast and very precise motion.

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MARK ROBERTS MOTION CONTROL

MRMC has, since 1966, continually set new standards in the industry and are the world leader in the design and manufacture of motion control technology. Winner of an Academy Award for Technical & Engineering Achievement.

**Talos Technical Specifications**

**PERFORMANCE**

<table>
<thead>
<tr>
<th>Axis Name</th>
<th>Range of Travel</th>
<th>Maximum Speeds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track</td>
<td>as required</td>
<td>3m per second</td>
</tr>
<tr>
<td>Lift</td>
<td>+3.4m to -.5m</td>
<td>1m per second at camera</td>
</tr>
<tr>
<td>Rotate</td>
<td>unlimited</td>
<td>70° per second</td>
</tr>
<tr>
<td>Pan</td>
<td>unlimited</td>
<td>120° per second</td>
</tr>
<tr>
<td>Tilt</td>
<td>unlimited</td>
<td>120° per second</td>
</tr>
</tbody>
</table>

- Lift Range of travel: 2.1m of travel
- Lift Drive Mechanism: Precision Ball Screw
- Track Section: 2’ Precision Bearing dolly rail
- Track Drive Mechanism: Rack & Pinion
- Camera load: 40kg
- Power Requirements: Single phase 110-240VAC 50-60Hz
- Rig width: 706mm, fits through standard doorways

**WEIGHT**

- Base: 90kg / 198lbs
- Turret: 65kg / 143lbs
- Arm: 68kg / 150lbs
- Counter-weight arm: 41kg / 90lbs
- Counter weights 10x13kg: 130kg / 287lbs
- Lift drive: 30kg / 66lbs
- Jacking floor wheels: 68kg / 150lbs
- Counter weights 10x13kg: 10x13kg = 130kg / 287lbs
- Lift drive: 30kg / 66lbs
- Jacking floor wheels: 68kg / 150lbs

**KEY FEATURES AND OPTIONAL EQUIPMENT**

- Runs on High Precision Bearing dolly rail.
- Back drive-ability - to be able to push the rig and have it playback the motions.
- Unlimited upgrades available for improved performance and functionality.
- Fits through standard doorways.
- 3rd Axis (Roll).
- Range of model mover systems - to control auxiliary motors on props and lighting.
- MC Tools - translation software for CGI software packages and motion.
- Remote Hand wheels or Panbars - for recording the movement of individual axes.
- Head can be used as a remote head.
- Realtime camera XYZ positional data.

**FLAIR MOTION CONTROL SOFTWARE**

All functions interface through industry standard Flair software offering the user a variety of filming techniques, including but not limited to:

- Repeat Moves
- Variable Camera Speed Moves
- Moving Step Animation
- CGI Import
- Scaled Moves
- Timecode Triggered Moves
- Video/HD Synchronised Moves
- Variable Speed Moves
- Stop Frame Animation
- Target Tracking
- CGI Export
- Rotated Moves
- Event Triggered Moves
- Timelapse