

MOTION SOLUTIONS FOR DARK RIDES AND 4D THEATERS

Moog Brings Your Concepts to Reality with Proven Design



EXCEPTIONAL OFF-THE-SHELF AND CUSTOM HIGH PERFORMANCE MOTION SOLUTIONS FOR DARK RIDES AND 4D THEATERS

We give your attractions reliability, expertise and fun... so that your safe and thrilling concepts come to life.

Reliability.

Moog designs for high reliability. Did you know that you will get more than 99.5% availability on your all-electric motion technology solution. We also design, develop and produce our safety software and components to keep riders safe and secure. Moog motion solutions also have the highest payload human-rated systems to maximize your ride's throughput.

Expertise.

As the worldwide leader in simulation motion solutions Moog has placed over 600 human rated motion systems in the field. Our knowledgeable engineers and worldwide field service assure you the best outcomes. Moog controls total engineering, design and manufacture of all critical components.

Fun.

Our motion solutions provide unending fun for 4D Theaters and Dark Rides with incredibly realistic motion cues. Look to maximize thrills with high accelerations and unleash imagination across all six degrees of freedom.

***Performance you can trust...
Excitement you can count on.***

ADVANTAGES

- Meets all global safety standards
- Unrivaled project management for exceptional results
- Increased flexibility with off the shelf and customer designs



High performance 6DOF/10/3000KG motion base built for Dark Rides with a proven design and low settled height

SPECIFICATIONS AND APPLICATIONS

Motion brings your concepts to life.

Moog's high performance human rated motion solutions provide the performance and safety that the entertainment market demands.






From understanding your exacting needs to offering full support for the complete system Moog can be your partner to supply thrilling and safe attractions.



Requirements Development
Motion System Design
Motion System Qualification
Production
Global Support



FIVE POPULAR MOTION BASES

	6DOF/12/1000KG	6DOF/26/1800KG	6DOF/10/3000KG	6DOF/60/14000KG	6DOF/60/16000KG
					
Payload Weight	1,158 kg (2,554 lb)	1,800 kg (3,968 lb)	3,091 kg (6,614 lb)	14,000 kg (30,865 lb)	17,237 kg (38,000 lb)
Stroke (max.)	.28 m (10.9 in)	.63 m (24.8 in)	.254 m (10.0 in)	1.32 m (51.8 in)	1.40 m (55.1 in)
Velocity (DOF max.)					
Surge	±0.51 m/s (20.0 in/s)	0.80 m/s (31.4 in/s)	±0.30 m/s (11.8 in/s)	±1.00 m/s (39.4 in/s)	±0.711 m/s (28.0 in/s)
Sway	±0.51 m/s (20.0 in/s)	0.80 m/s (31.4 in/s)	±0.30 m/s (11.8 in/s)	±1.00 m/s (39.4 in/s)	±0.711 m/s (28.0 in/s)
Heave	±0.30 m/s (12.0 in/s)	0.60 m/s (23.6 in/s)	±0.30 m/s (11.8 in/s)	±0.80 m/s (31.5 in/s)	±0.610 m/s (24.0 in/s)
Roll	±30.0°/s	±35.0°/s	±30.0°/s	±22.0°/s	±20.0°/s
Pitch	±30.0°/s	±35.0°/s	±30.0°/s	±21.0°/s	±20.0°/s
Yaw	±40.0°/s	±40.0°/s	±30.0°/s	±25.0°/s	±20.0°/s
Acceleration (DOF max.)					
Surge	±5.9 m/s ² (0.60 g)	7 m/s ² (0.7 g)	±3.0 m/s ² (0.3 g)	±7.0 m/s ² (0.71 g)	±5.89 m/s ² (231.89 in/s)
Sway	±5.9 m/s ² (0.60 g)	7 m/s ² (0.7 g)	±3.0 m/s ² (0.3 g)	±7.0 m/s ² (0.71 g)	±5.89 m/s ² (231.89 in/s)
Heave	-4.9 m/s ² , 6.9 m/s ² (-0.5g, +0.7g)	10 m/s ² (1.0 g)	±3.0 m/s ² (0.3 g)	±9.0 m/s ² (0.91 g)	±7.85 m/s ² (309.06 in/s)
Roll	±500°/s ²	250°/s ²	±300°/s ²	±150°/s ²	±100°/s ²
Pitch	±500°/s ²	250°/s ²	±300°/s ²	±150°/s ²	±100°/s ²
Yaw	±500°/s ²	500°/s ²	±300°/s ²	±150°/s ²	±100°/s ²

Moog offers additional actuators and controllers for other motion applications. Just ask us.



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Entertainment Simulation
TJW / Rev. A, October 2018, Id. CDL55984-en

CALL US TO FIND OUT HOW OUR TECHNOLOGY CAN TAKE YOUR CONCEPTS TO REALITY...NOW!

This technical data is based on current available information and is subject to change at any time by Moog. Specifications for specific systems or applications may vary.

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