

# Mantis

Our multi-axis test systems have been delivered to leading companies in the United States, Europe and Asia, with over 30 installations in operation today. MANTIS™ is the system of choice for its high frequency capability, large displacement, extended payload capacity and demonstrated superiority in design. Through the use of hydrostatic bearing technology pioneered by Team Corporation in the vibration test market, MANTIS™ has the performance to simulate real-world events previously unattainable.



## Features

- Frequency 0-200 Hz
- Force Ratings up to 34,000 (150 kN)
- Single Axis to 6 Axis Vibration
- Displacements up to 6 in (150 mm)
- Table Size 60 x 82 in (1.5 x 2.1m)
- Friction-Free Hydrostatic bearings
- Hydrostatic Bearings for Bell Cranks
- HydraBall Connections on all Actuators
- Minimal Maintenance

## Applications

- Automotive BSR (Buzz Squeak & Rattle) testing
- Seat Testing
- Automotive Component Testing
- Recreation Equipment Rack Testing

# Specifications

Top Surface	59 in x 83 in (149 x 210 cm)
Side Surface	n/a
Table Mass	1642 lbs (744 kg)
Table First Mode Frequency	200 Hz

#### Operational Frequency Range:

Test Frequency Range	0-200 Hz
Max Frequency-Peak Force	0-100 Hz
Max recommended Payload	1433 lbs (650 kg)

#### Translation Performance Vertical:

Displacement - P-P Dynamic	5.9 in (15 cm)
Velocity - Peak	30 ips (76 cm/s)
Acceleration*	5.6 g
Force/Axis	33050 lbf (147 kN)

#### Translation Performance Lateral:

Displacement - P-P Dynamic	5.9 in (15 cm)
Velocity - Peak	30 ips (76 cm/s)
Acceleration*	3.8 g
Force/Axis	22500 lbf (100 kN)

#### Longitudinal Displacement

Displacement - P-P Dynamic	5.9 in (15 cm)
Velocity - Peak	30 ips (76 cm/s)
Acceleration*	3.8g
Force/Axis	15050 lbf (67 kN)

#### Rotational Performance:

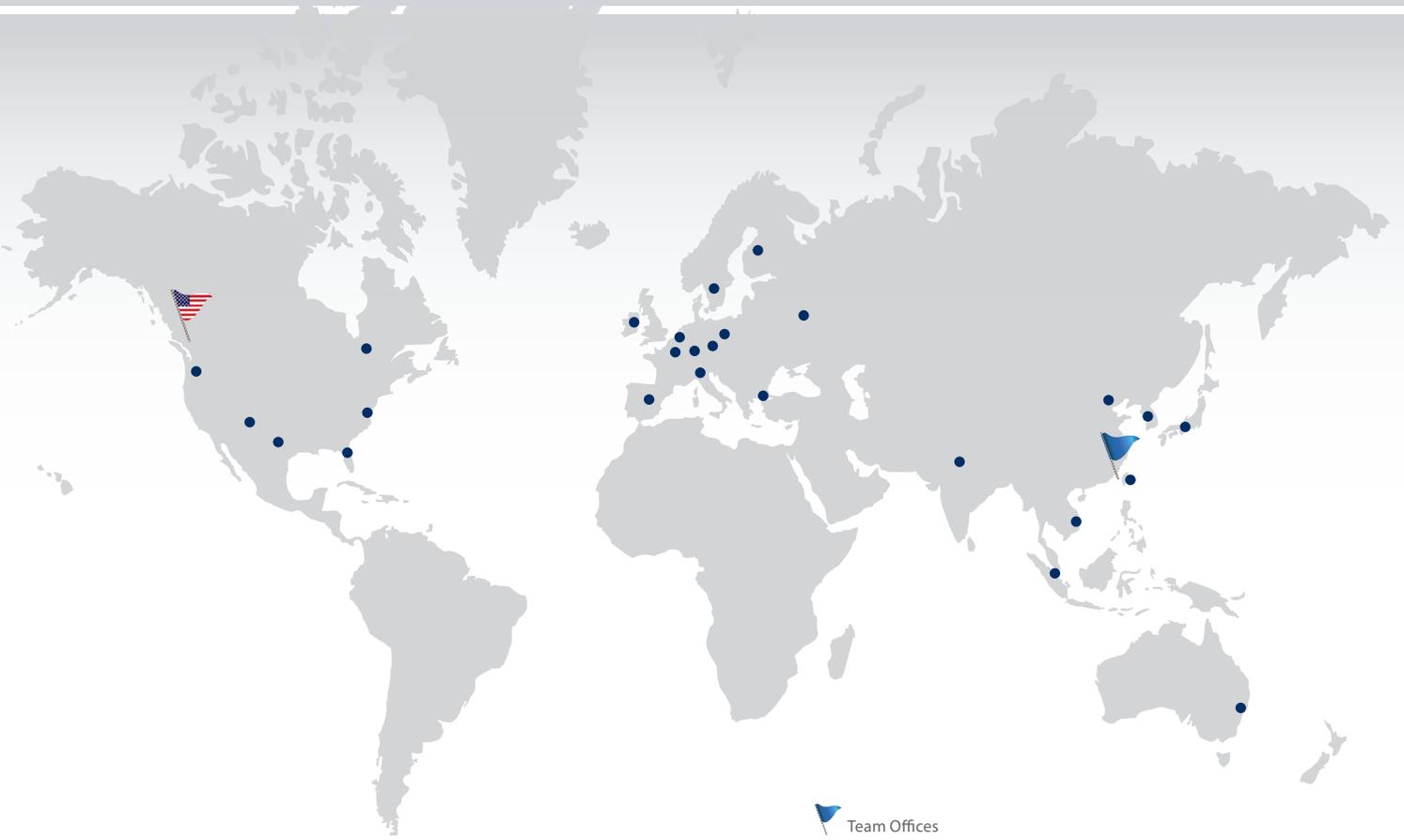
Roll Displacement	+/- 8.5 degrees
Pitch Displacement	+/-6.8 degrees
Yaw Displacement	+/- 8.5 degrees

#### Thermal Protection:

Standard	39.2 to 149 F (4 to 65 C)
With Thermal Barriers	-40 to 250 F (-40 to 121 C)

*\*With max payload*





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