iXMotion 7-Axis Dynamic Motion Simulators DMS Series
4-Axis Flight Motion Simulator FMS-40 Series
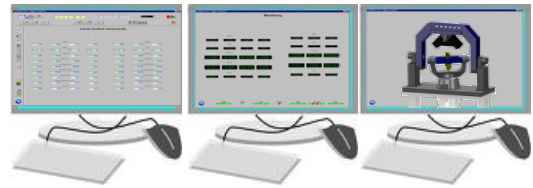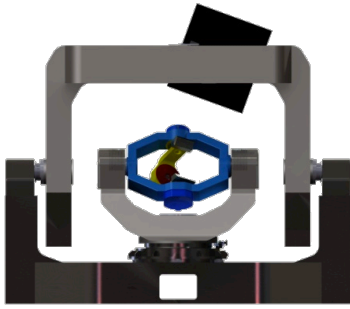# 3-Axis Target Motion Simulator TMS-30 Series

DMS Series
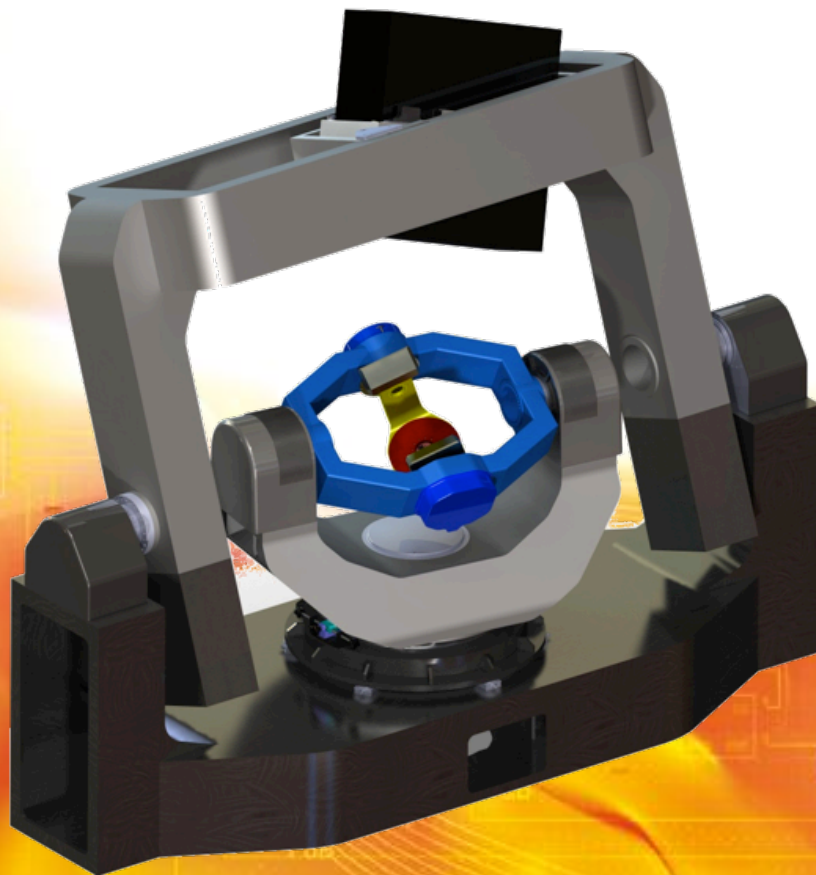
iXMotion multi-axis motion simulators **DMS Series** are dedicated to simulate the motions of vehicles and motions of targets; they are a combination of two to several motion simulators controlled by the same system management. iXMotion multi-axis motion simulator **DMS Series** is composed by:

✓ **Flight Motion Simulator - FMS Series:** Multi-axis motion simulators (from three rotational axes to n axes). FMS is the motion simulator that simulates motions of vehicles,

✓ **Target Motion Simulator - TMS Series:** Multi-axis motion simulators (from two linear or rotational axes to n axes). TMS is the motion simulator that simulates motions of targets.

All iXMotion multi-axis motion simulators **DMS Series** use the unrivalled iXMotion **Multi-Axis ProAxe* Controller** and are managed by the user-friendly iXMotion **Multi-Axis ProAxe Software.**

All iXMotion multi-axis motion simulators **DMS Series** work in local mode, in remote control mode and in real time (Hardware-In-the-Loop HWIL capabilities with servo loop of 500 µs).

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* Patent pending

DMS - Series

4-Axis Flight Motion Simulator FMS-40 Series	**3-Axis Target Motion Simulator** TMS-30 Series
➤ Unlimited rotational freedom on four axes ➤ Up to 1000 deg/sec rate and 5 000 deg/sec² acceleration ➤ Up to ± 1 arcsec position accuracy ➤ Up to ± 1 arcsec position repeatability ➤ Up to 1.10-5 deg position resolution ➤ Weight of UUT from 30 to 10 kg	➤ Two rotational axis and one linear axis ➤ Rotational Freedom of inner axis up to ± 30 deg ➤ Rotational Freedom of external axis up to ± 120 deg ➤ Linear Freedom of middle axis up to ± 300 mm ➤ Weight of UUT from 50 kg up to 300 kg

➤ Real-Time operation / HWIL with servo loop of 500 µs
➤ ProAxe* Multi-Axis Controller and Software
➤ Control and command of embedded mounted system

Control of the n-Axis of the DMS via Control Consoles with iXMotion Multi-Axis ProAxe Software
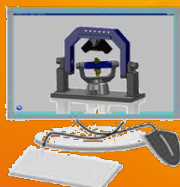
First console: Control & Command of n-Axis of the DMS System
➤ Position mode (position profile)
➤ Rate mode (angular rate profile)
➤ Synthesis mode (periodic motion programmed with amplitude, frequency and phase)
➤ Track mode (trajectory files)

Second console: Monitoring of n-Axis of the DMS System
➤ n-Axis for FMS
➤ n-Axis for TMS
➤ Status and alarm of the n-Axis TMS

Third console: 3D Vision of n-Axis of the DMS System
3D visualization of the n-Axis Flight Motion Simulator FMS motions and of the n-Axis Target Motion Simulator motions either during operation or for simulation.

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