

Gross moving load (incl. upper joint blocks), kg	9.000 / 12.000
Diameter by top joints' centers, mm	4.533,4
Diameter by bottom joints' centers, mm	4.889,8
Settled height (floor to top joints' surface), mm	2.183
System weight, kg	10.600 / 12.100
Power Supply Requirements	380v 60A 3Ph
Average Power Consumption, kW	60





RELIABILITY

Our **motion system WAS** developed with the minimal possible aggregation level in mind, using a reasonably simplified units together with high reliable components. This increases the serviceability and overall lifespan of a whole simulator.

Our **motion system IS** intended for a somewhat conservative customers, which have the motion quality as the main parameter prevailing over all others.

Our **motion system WILL** definitely find its user among the customers who choose while have already decided for themselves what is better – electric or hydraulic.



EXCELLENCE

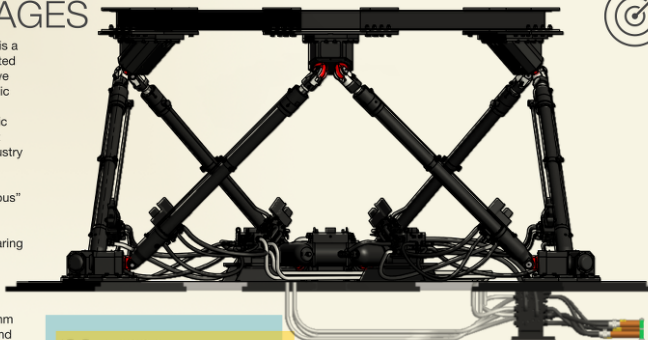
The prime design objective was to create a hydraulic motion system the certain advantages of which would prevail over any electric or hybrid motion system. The combination of achieved results, due to lowering the overall fluid consumption, elongating the actuator's stroke and the modelling bandwidth accordingly, the possibility to implement both a rotary – or a fixed-wing aircraft model allow us to define its qualities as unique with a great deal of confidence. Our motion system could be reproduced at client's premises virtually anywhere and accordingly to the client's need and requirements.



ADVANTAGES

Our technology of choice is a 6-DoF hydraulically operated motion system (of Hy-Move 1650 family) using hydraulic mass compensation and transmission. The hydraulic cylinders have the longest among the simulating industry total working stroke of 1750 mm.

The using of a "Synchronous" construction of cylinders allowed us to have more compact actuators comparing to competitors while maintaining the same payload level. Thus the external diameter of an actuator makes only 180mm for Hy-Move 1650/9000 and 210mm for Hy-Move 1650/12000. The in-house developed hydraulic cylinders for motion systems are capable to produce vibration effects for helicopter simulation within bandwidth of 5–10 Hz on the ½ of maximal stroke length. That eliminates the need of any additional vibration source.



ISO-14001

In accordance with ISO-14001 (European Directive on Environmental Management) our Hy-Move 1650/9000 and Hy-Move 1650/12000 are designed to minimize energy usage and reduce the use of hydraulics and transmission fluids.



EFFICIENCY

Our goal is not to lower the energy consumption at the expense of compromising the motion modelling quality, our achievements lie in slightly different field. We definitely reduced the overall ownership cost, for instance by reducing the fluid volume up to 30% in comparison with other leading developers! Our full-hydraulic non-hybrid motion system for 12.000 kg payload has only a 1.200 litres fluid tank. Thus we are doing our best to comply with the ISO-14001 (European Directive on Environmental Management).



INNOVATION

The whole training process on a hydraulic-driven Full Flight Simulator is associated by the students and personnel closely to a certain aircraft model due to high precision dynamics that is perceived mostly as a real-life aircraft flight. Our motion systems are designed to amplify the perception of reality and here you will find some hints on how we are achieving this. types of system.

EXCELLENCE IN DETAILS

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