



Dynamic hexapod for motion



## **KEY FEATURES**

**APPLICATIONS** 

Motion simulator

Swell simulator

- Payload capacity up to 1 ton
- Linear travel range ± 460 mm
- Angular travel range ± 30°



Driving simulator



MISTRAL hexapod reproduces ship motions to test the stabilization performances of large maritime SATCOM antennas.



MISTRAL hexapod simulates the motion of a floating gas production unit to characterize hydrodynamic effects of the swell on the chemical reactions in a gas deacidification column. These tests allow to improve performance and robustness of the processing units.





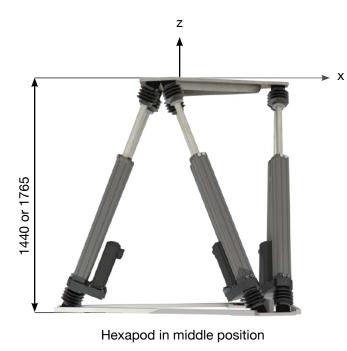
MISTRAL hexapod orientates a ship model in a wave basin to reproduce maritime conditions and test the shipbuilding techniques.



The surfer can practice various wave situations played by the Simusurf hexapod and improve his gestures through practice and analysis by recording his movements with additional sensors. Simusurf Hexapod can be used as a discovery and learning tool for the casual surfer or as a performance and training tool for the professional surfer.

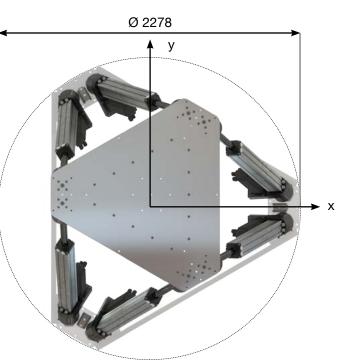
	MISTRAL 800	MISTRAL 800		MISTRAL 600	
	for 1 000 kg payload	for 500 kg payload	for 1 000 kg payload	for 500 kg payload	
Motion and positioning					
Travel range Tx, Ty (mm)	± 460	± 460	± 400	± 400	
Travel range Tz (mm)	± 400	± 400	± 300	± 300	
Travel range Rx, Ry (deg)	± 30	± 30	± 30	± 30	
Travel range Rz (deg)	± 40	± 40	± 40	± 40	
Speed Tx, Ty, (mm/s)	1 000	1 200	1 000	1 200	
Speed Tz (mm/s)	600	1 000	600	1 000	
Speed Rx, Ry (°/s)	50	100	50	100	
Speed Rz (°/s)	70	140	70	140	
Acceleration Tx, Ty, (mm/s <sup>2</sup> )	5 000	8 000	5 000	8 000	
Acceleration Tz (mm/s <sup>2</sup> )	6 000	8 000	6 000	8 000	
Acceleration Rx, Ry (°/s²)	500	800	500	800	
Acceleration Rz (°/s²)	700	1 100	700	1 100	
Mechanical properties					
Payload capacity (kg) (vertical orientation only)	1 000	500	1 000	500	
Motor type	Brushless	Brushless	Brushless	Brushless	
Miscellaneous					
Operating temperature range (°C)	0 to + 50	0 to + 50		0 to + 50	
Size mobile platform (mm)	Ø 1 386	Ø 1 386		Ø 1 386	
Height in middle position (mm)	~1 765	~1 765		~1 440	
Mass (kg)	~ 450	~ 450		~ 400	
Cable length (m)	10	10		10	
Options	Acquisition and sto API	IP 64 motor protection Acquisition and storage of motions API Customized platform design			
Controller					
Interface	Ethernet	Ethernet			
Power supply	400 VAC (three-phas	400 VAC (three-phase) / 32 A			

The performances are specified for single axis motions, with all other axes at midrange and for a rotation center in the middle of the mobile platform.









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