MOTION COCKPIT

QS-V20

4DOF
ARCHITECTURE

<8ms
LATENCY

1000Hz
MAXIMUM CONTROL FREQUENCY

0.88G
MAXIMUM ACCELERATION

900mm/s
MAXIMUM VELOCITY

0-100Hz
VIBRATIONS FREQUENCY RANGE

MOTION COCKPIT **QS-V20**

The QS-V20 is an extended 4DoF motion cockpit, designed for pro racing car simulation, dedicated to both drivers training and sim racing enthusiasts. The motion system based on world's fastest linear actuator's technology provides incredible levels of vehicle feedback to the driver. This motion platform is suitable for Rally, GT and F1 simulations, also the small footprint and lightweight design allow to fit the machine to every racing room.

KEY **FEATURES**

Traction loss Incredible oversteering feedback sensation	Compact design Small footprint and lightweight body	Easy to deploy Predefined set of motion profiles for various actuators configurations	Modular and Reconfigurable Possibility to expand the system up to 8 cooperating actuators.
Wide range of motion Linear actuators with stroke up to 100 mm	Super silent Extremely quiet and smooth operation	Low power consumption High performance devices with minimal power budget	Plug&Play Ready to work in a few minutes

GENERAL **SPECIFICATION**

		Q-MODE 230V		PERFORMANCE MODE 230V		HEAVY DUTY MODE 230V	
	EXCURSIONS	VELOCITY	ACCELERATION	VELOCITY	ACCELERATION	VELOCITY	ACCELERATION
HEAVE	- 0.05 m, 0.05 m - 1.96 in, 1.96 in	0.90 m/s 35.4 in/s	8.8 m/s²	0.50 m/s 19.6 in/s	5.9 m/s²	0.35 m/s 13.7 in/s	2.5 m/s²
ROLL	-8.5°, 8.5°	140°/s	1500°/s²	80°/s	1200°/s²	60°/s	450°/s²
PITCH	-5.5°, 5.5°	40°/s	500°/s²	28°/s	380°/s²	20°/s	150°/s²
YAW	-6.1°, 6.1°	75°/s	900°/s²	50°/s	710°/s²	35°/s	280°/s²

ARCHITECTURE	4 DOF with **TRACTION LOSS**
MAXIMUM CONTROL FREQUENCY	1000 Hz
VIBRATIONS FREQUENCY RANGE	0-100 Hz
LATENCY	<8 ms
POWER SUPPLY REQUIREMENTS	115 / 230 VAC Single Phase
CONNECTION	USB
CONFORMITY INFORMATION	CE RoHS

PAYLOAD **SPECIFICATION**

MAX USER WEIGHT	150 kg | 330.7 lb
PRODUCT WEIGHT	280 kg | 617.3 lb

MAIN **DIMENSIONS**

TOTAL LENGTH	1715 mm | 67.52 in
TOTAL WIDTH	1097 mm | 43.19 in (without step)
TOTAL HEIGHT	1042 mm | 41.02 in (without step)

POWER **REQUIREMENTS**

	Q-MODE **230V**	PERFORMANCE MODE 110 / **230V**	HEAVY DUTY MODE 110 / **230V**
AVERAGE POWER [kVA]	**1.6**	0.8 /**0.9**	0.5/**0.6**
PEAK POWER [kVA]	**3.1**	1.2/**1.4**	1.0/**1.2**
PEAK CURRENT [A]	**15**	11/**7**	9/**6**
AVERAGE POWER (STRESS TEST) [kW]	**0.06**	0.4/**0.4**	0.3/**0.3**
AVERAGE POWER (TYPICAL GAME) [kW]	**0.08**	0.07/**0.08**	0.07/**0.08**

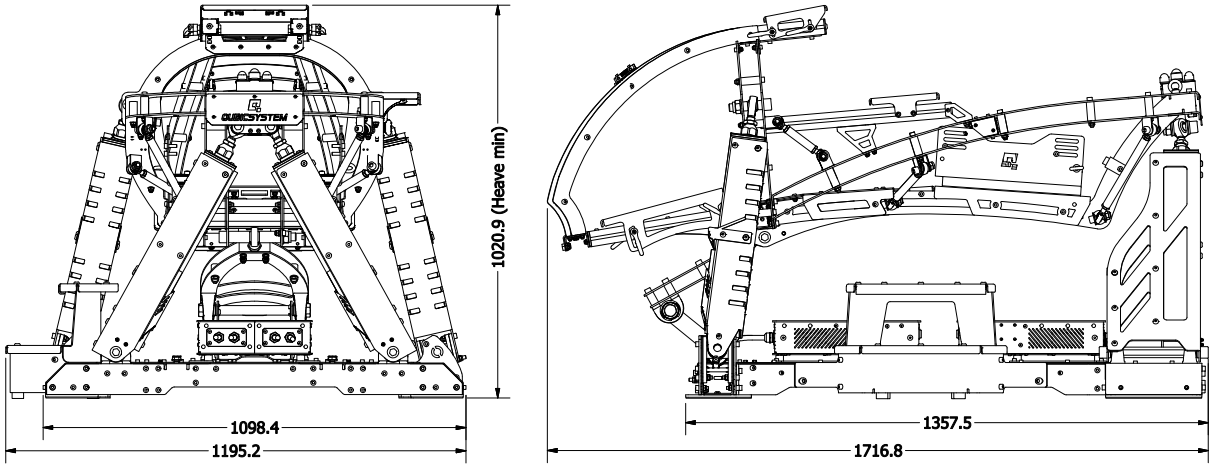
SUPPORTED **TECHNOLOGIES**

VR HeadWay, VBS3/4 Plugin, Self Diagnostic, Self calibration

OUR **SOFTWARE**

Qubic Manager (free of charge)| Motion SDK - ForceSeatDI | Motion SDK ForceSeatMI | Motion Theater

GENERAL **DIMENSIONS**



USE-CASE EXAMPLE - **DRIVING SIMULATOR**