



traxara
robotics

Robots that interact with humans in
real, virtual and teleoperated environments.

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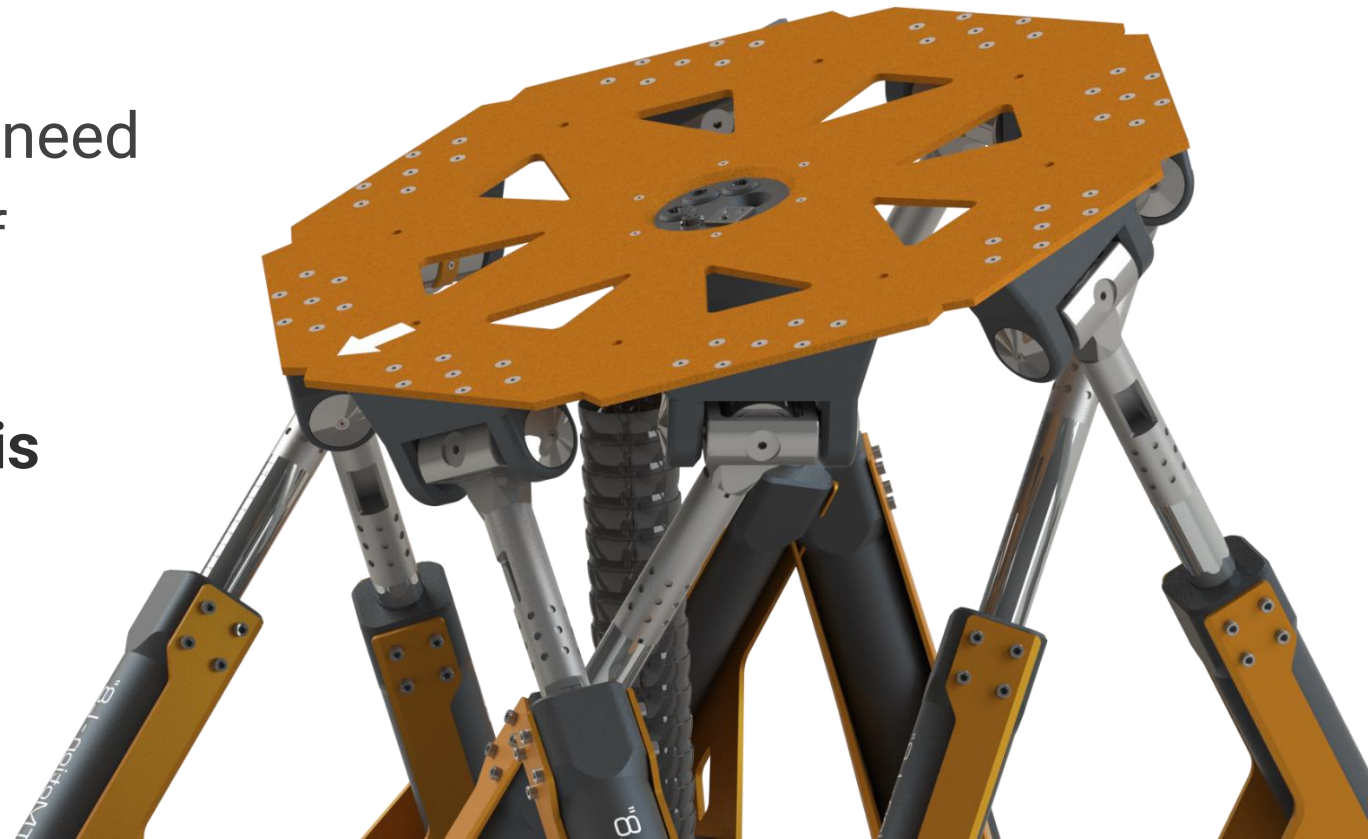
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Why Traxara ?

30 years of robotics scientific knowledge and engineering simulators.

- Integration is the biggest cost
- Different protocols, different APIs result in poor performance
- Game devices do not meet the need
- Many “pro” devices fall short of promises, often incomplete

A completely different approach is needed, get back to basics with robotics innovation.



TDrive - Framework for Motion and Haptics.

Unified haptics and motion framework on common control architecture.

- Seamless vertical integration of Traxara devices in one package
- Single API for all devices with developer SDK and rich set of interfaces
- Synchronized haptics and motion with proprietary motion cueing
- Connects to any vehicle simulation, even with low framerates
- Fast 10kHz communication rate with <math><0.5\text{ ms}</math> ultra-low latency response
- Capable of rendering effects up to 250Hz



TDrive enabled product family.



TMotion Kits

High-fidelity motion with large motion range, large loads, high velocity and acceleration.



TWheel

Compact force-feedback haptic steering with high-performance, high torque, and zero backlash.



TShifter

2DOF haptic shifter with high-torque, wide range of motion, and high transparency.

Introducing TMotion 6DOF – Unbeatable performance in a compact footprint.



- Large, nearly-symmetric workspace and highly decoupled kinematics
- Widest range of 6DOF motion in <1 meter footprint.
- High velocities, high accelerations (>4g with payload), high payload
- Incorporates synchronized VR
- Proprietary motion cueing – maximize effective workspace without unnecessary motion artifacts
- Powered by TDrive for synchronized motion and haptics.

traxara
robotics | In Action.

