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SR
Steering Robot

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Agenda

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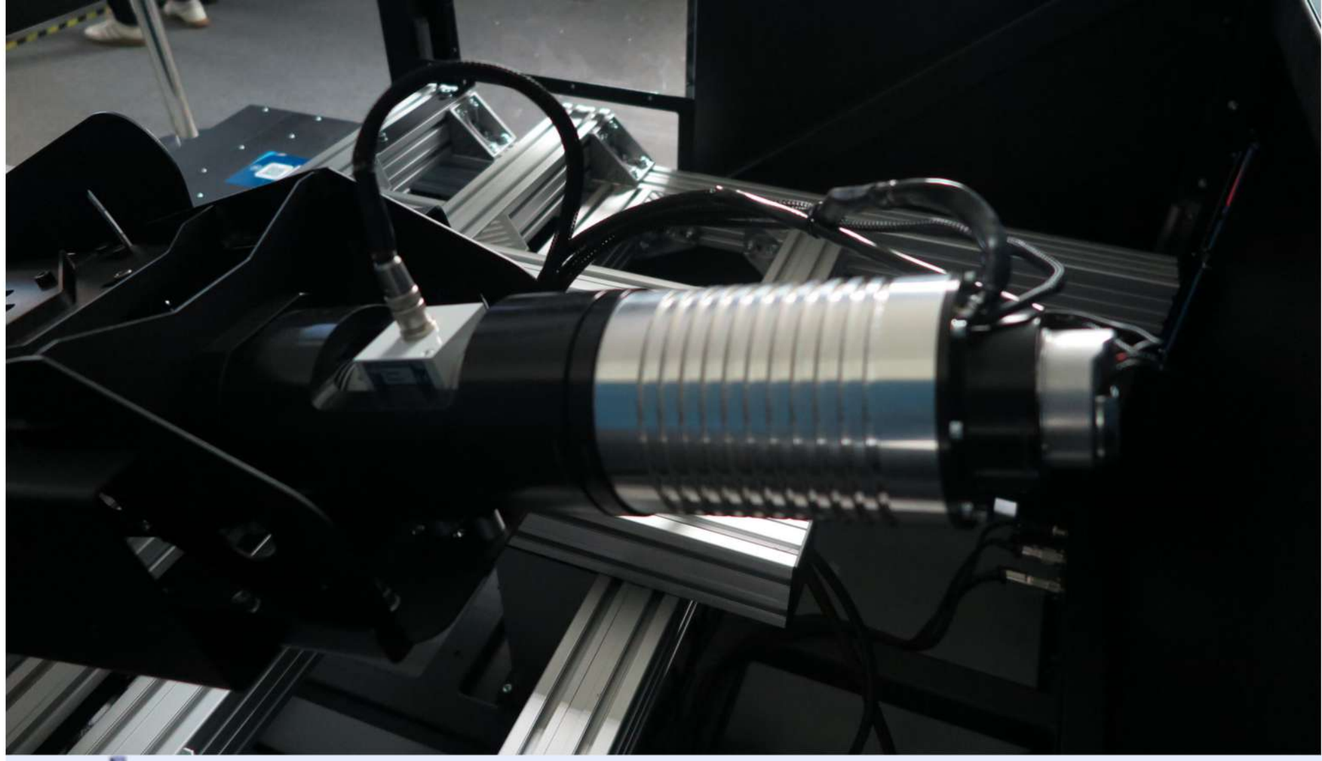
Introducing SR: your key to precision steering systems.

The Steering Robot(SR) is a high-performance direct-drive steering actuator, designed to deliver realistic and precise steering feedback. It is an ideal solution for advanced simulation applications.



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What can you do with SFU?

HiL System Integration

When paired with a HiL system (e.g., EPSiL) and a Torque Actuator (TA), it controls the steering rack and provides real feedback through the Virtual Column mechanism.

Standalone Mode

Used independently, it simulates steering torques based on virtual vehicle models.

Autonomous Steering & ADAS

Suitable for the development of autonomous steering functions, supporting improvements in ADAS and driving automation systems.

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Key performances of SFU

Technical Feature	Technical Specification
Possible use cases	Model in the Loop Remoted hardware in the Loop
Torque on steering actuators	› 62.1 Nm peak › 10 Nm rms
Bandwidth of the remoted closed loop	>5 Hz
Steering actuators torque sensor accuracy	0.5% FS
Adjustable frame	optional
Communication latency	<3ms
Safety system	Multisensor-based STO
Communication protocol with the real time machine	Ethercat, CAN, Flexray, other.

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The **future-enabling** answer

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