

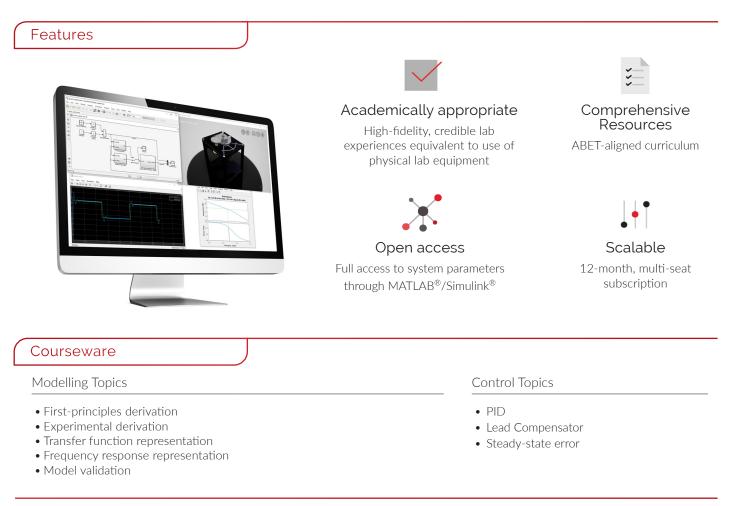
QLABS VIRTUAL ROTARY SERVO

Virtual platform for distance and blended undergraduate control systems courses

QLabs Virtual Rotary Servo is a fully instrumented, dynamically accurate digital twin of a classic Rotary Servo Base Unit system. It behaves in the same way as the physical hardware and can be measured and controlled using MATLAB[®]/ Simulink[®] and other development environments. With QLabs Virtual Rotary Servo, you can enrich your lectures and activities in traditional labs, or bring credible, authentic model-based lab experiences into your distance and online control systems course.

Same as the physical Rotary Servo Base Unit, the virtual system features a DC motor that drives a smaller pinion gear. This gear is fixed to a larger middle gear that rotates on the load shaft. The position of the load shaft is measured using a high-resolution optical encoder or a potentiometer.

QLabs Virtual Rotary Servo is available as a 12-month, multi-seat subscription. The platform is compatible with the physical Rotary Servo Base Unit curriculum, which covers modelling, position, and speed control topics.



QLabs Virtual Rotary Servo runs on Windows 10 (64-bit) and requires MATLAB 2019a or later (not included).

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