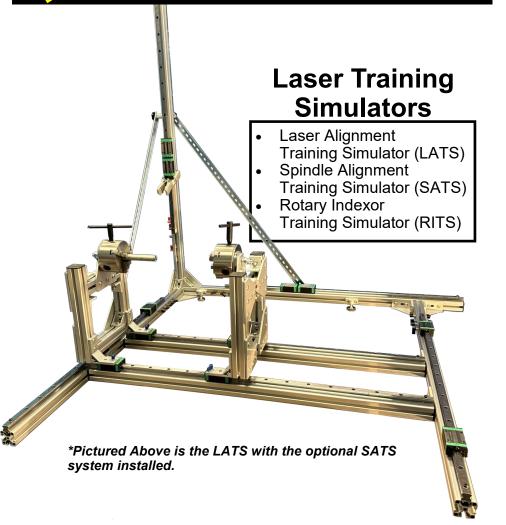


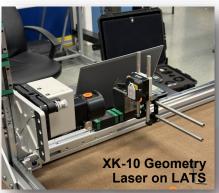
PRESENTS....





WHAT is the QTS family of simulators?

The Quality Tech Services family of simulators consists of the Laser Alignment Training Simulator or LATS, the Spindle Alignment Training Simulator or SATS, and the Rotary Indexer Training Simulator or RITS.



HOW do I use the simulators?

Each of the simulators has been specifically built to work with the Renishaw Laser Calibration products. The LATS simulator works with *Renishaw's XL-80* and *XM-60* Laser Calibrations system, and the *XK-10* Geometry Laser System. The **SATS** simulator is a bolt-on attachment to the **LATS** system. It can simulate the movement of spindles along the X, Y, and Z planes. The **RITS** works with the *XL-80 or XM-60* Laser Systems combined with the XR-20 Rotary Calibrator.

WHY do I need this?

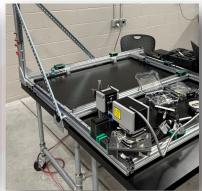
The simulators allow for decreased machine down time, by bringing machine tool calibration training into the respective back shops, conference rooms, or classrooms. The LATS, SATS and RITS are all designed to fit on the top of a table.



This eliminates the need for bringing down a machine for training in Laser Calibration techniques. The simulators provide the student with hands on experience with laser systems, and helps them to formulate real world setups, processes, and calibrations. Each system comes in a hard shell case with padding to ensure stability during transport. Each system can be setup and tore down in a matter of minutes.

Laser Alignment Training Simulator (LATS)





Spindle Alignment Training Simulator (SATS)





Rotary Indexer Training Simulator (RITS)





Simulator Specifications

The Simulators combined with the Renishaw laser systems provide training on the following disciplines.

Discipline	XL-80	XM-60	XR-20
Linear Positioning	Ø	\bigcirc	
Angular Pitch	$ \emptyset $	\bigcirc	
Angular Yaw	Ø	\bigcirc	
Straightness	$ \emptyset $	\bigcirc	
Squareness	Ø	Ø	
Angular Roll		Ø	
Rotary Calibration			\bigcirc

Discipline	XK-10
Straightness	\varnothing
Squareness	$ \emptyset $
Flatness	\varnothing
Parallelism	$ \emptyset $
Level	Ø
Spindle Coaxiality	\bigcirc
Spindle Direction	Ø

All Simulators are packaged hard cases with wheels and padding for easy mobility. The Simulators are modular and only take approximately 15 to 20 minutes to setup.



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