



**THELKIN**  
Know the Difference

Product Information

# SERVO-DYNAMIC LOAD FRAMES

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## FULLY ELECTRIC

"Plug-and-Test" – no power source needed other than a standard electrical outlet.

Standard electric power supply is sufficient to drive this system – no hydraulic or other power supply required. This means, no noise, no maintenance, no spills, no environmental hazard. It is easy, clean, quiet and efficient.



## HIGH PRECISION

Position accuracy of less than 1  $\mu\text{m}$  and a highly precise load sensor.

This precision provides the basis for superior closed-loop control performance and system dynamics. And even small, customer-defined load and monitor profiles can be applied with a high level of accuracy.



## LOW MAINTENANCE

The entire system – drive-train, actuator, bearings – is designed to require virtually no maintenance.

All bearing components are highly over dimensioned. Even significant side-loads will be tolerated. In the improbable case of failure, we carry all components of your system as spare parts: rental systems and contract testing are further available.



## FLEXIBLE

Workspace and system size, adaptation type, load and displacement specifications?

Tell us your specifications are and we will build your system accordingly. Our flexible design can be adjusted to your required size, load and specimen adaptation to make sure that it will fit your testing needs.



## COMPACT AND RIGID

The reinforced frame has been designed for optimized force distribution and stiffness.

Robust load-frame design and the integrated power train provide the basis for excellent control accuracy of highly dynamic performance. In addition, the bearing layout assures great rotational stiffness of the actuator.



## PURE DESIGN

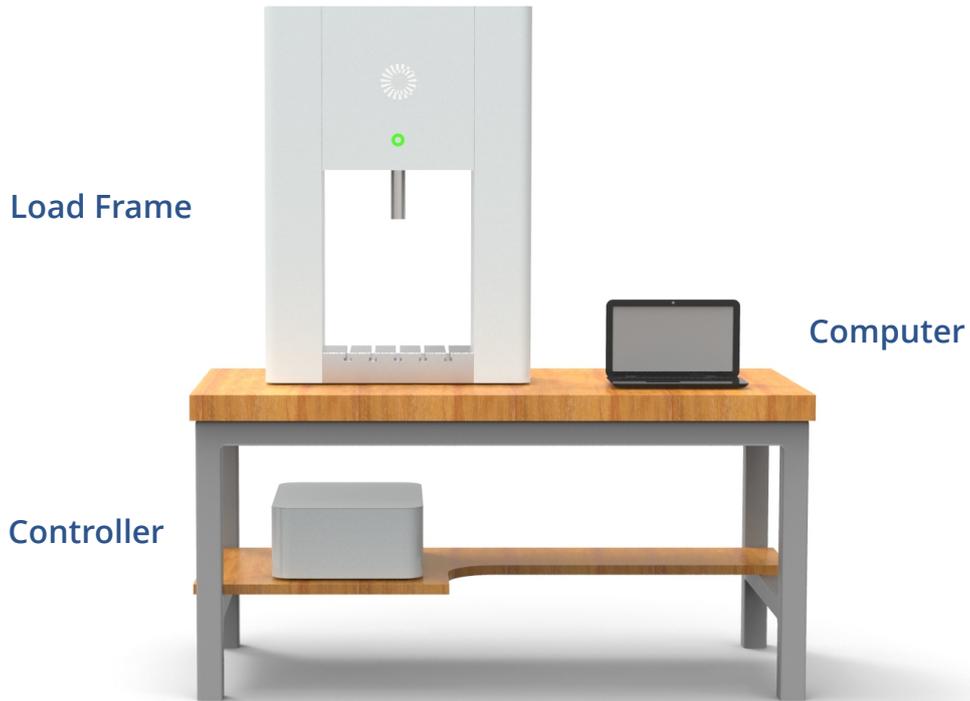
Optimized outside chassis for safe use, even in harsh environments.

The system is designed eliminate any features that can get in the way of the testing setup or pose a hazard to the user. The entire system can be sealed to be used under harsh conditions or in clean room environments.

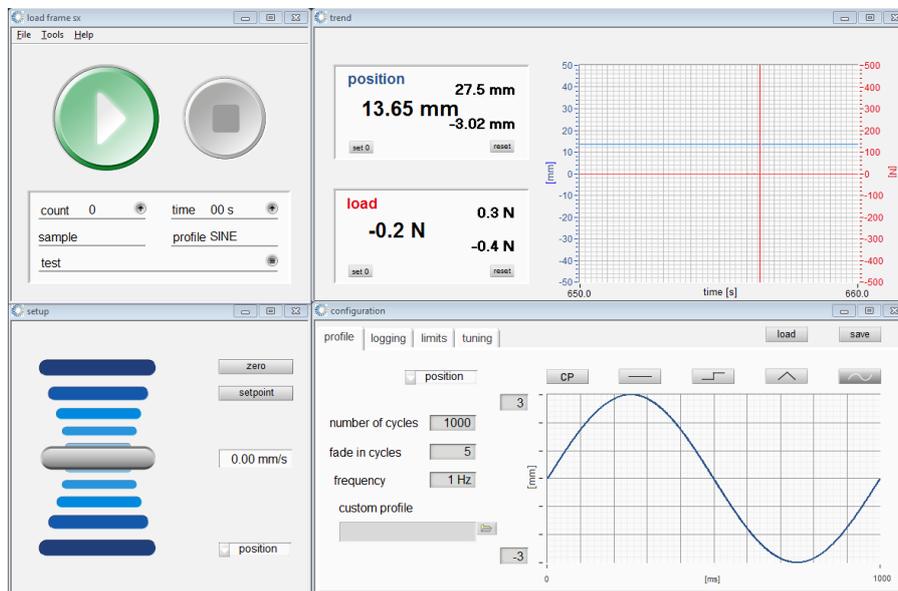


		SDL-S	SDL-M	SDL-L	SDL-XL
<b>MAX. LOAD</b>	N	50/100	500/1'000	2'500/5'000	7'500/10'000
<b>DISPLACEMENT</b>	mm	± 25.0	± 37.5	± 50.0	± 75.0
<b>RESOLUTION</b>	µm	0.2	0.2	0.2	0.2
<b>WORK SPACE</b>	H (mm)	250	375	500	600
	W (mm)	200	300	400	500
<b>DIMENSIONS</b>	H (mm)	500	750	1'100	1'720
	W (mm)	325	490	750	800
	D (mm)	125	200	300	500
<b>WEIGHT</b>	kg	20	90	180	420

# SYSTEM



# SOFTWARE



 SWISS PATENTED TECHNOLOGY®  
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