

# VECTOR F8

## LINEAR MOTOR SUSPENSION DYNO



### ADVANCED SHOCK ABSORBER TESTING

The VECTOR F8 is designed to provide superior testing capabilities for shock absorbers at various stages of vehicle development and production, including in-line, end-of-line and R&D testing. The system features a state-of-the-art linear motor that allows precise control of the test process, ensuring accurate and consistent results essential for vehicle safety and performance evaluation.

Designed to adapt seamlessly to different test requirements, the VECTOR F8 supports a wide range of shock absorber types - from motorcycles to trucks. This flexibility makes it invaluable to manufacturers and test facilities that require a reliable solution

### VECTOR F8 ADVANTAGES



#### Performance & Precision

Equipped with a high-precision linear motor and renowned components such as Siemens controllers and HBM load cells, the VECTOR F8 ensures accurate and dynamic evaluations.



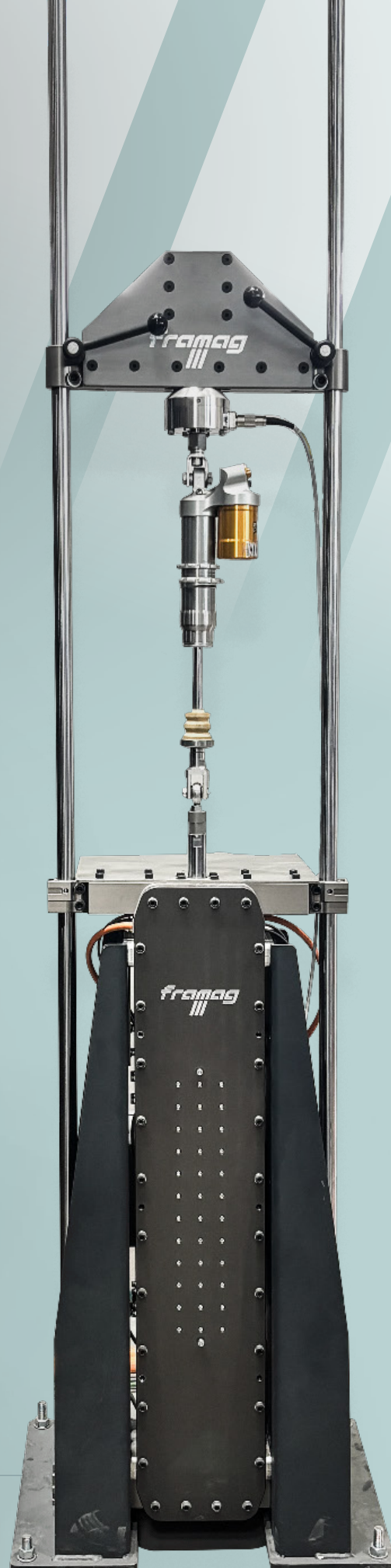
#### User-Orientation & Versatility

The VECTOR F8 combines user-centric flexibility and adaptability. The Software allows multi-user operation. 10 free analogue inputs, allow easy sensor expansion to extend test capabilities.



#### Reliability & Longevity

Thanks to the combination of precise in-house production and the use of high-quality components, we guarantee reliability and low service costs.



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## TECHNICAL DATA

<b>STROKE</b>	Usable	200 mm
	Metal-Metal	228 mm
<b>DYNO SPEED</b>	Minimum	<0,1 mm/s
	Maximum	6000 mm/s
<b>FORCE</b>	Ultimate (0,5sec)	10,8 kN
	Peak (1sec)	8,4 kN
	Continuous	3,7 kN
<b>MASS</b>	Moving	17,7 kg
	Total machine	500 kg
<b>FREQUENCY</b>	Maximum	>100 Hz
<b>MOTOR</b>	Type	Linear motor Permanent magnet
	Number	2
	COOLING METHOD	Air
<b>POSITION SENSOR</b>	Accuracy	1,5µm
	Resoultion	50 nm
<b>LOAD CELL</b>	Maximum force	12,5 kN
	Rel. reproducibility	0,02 %
	Max. Hysteresis error	0,03 %
	Linearity deviation	0,025 %
<b>TEMPERATUR SENSOR</b>	Type	Contactless
	Range	-50 to +1030 °C
<b>ANALOG INPUTS</b>	Free channels	10
	Sampling rate	10 kHz
<b>ELECTRIC POWER</b>		3 phase
	Voltage	400 V
<b>SHAFT SIDE LOAD</b>	Max. @ <0,1 m/s	1000 N
	Max. @ <1 m/s	500 N
<b>FREE MOUNTING LENGTH</b>		0 - 950 mm
<b>DIMENSIONS</b>		680 x 820x 2430 mm



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