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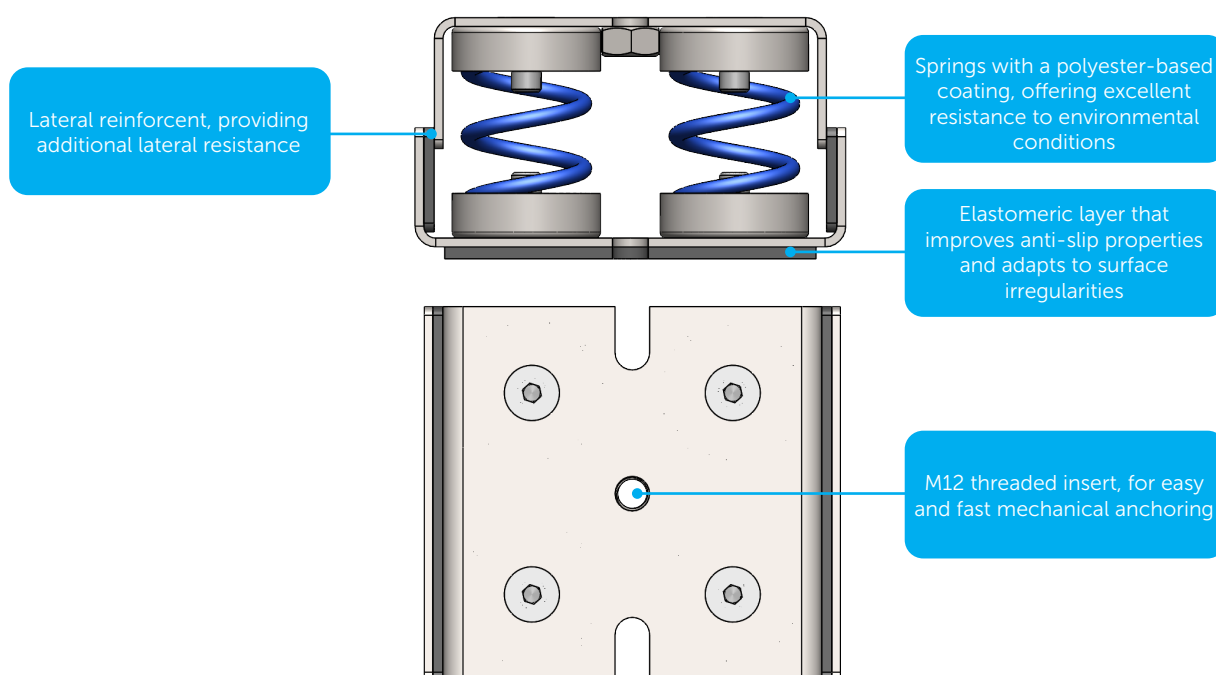
Stravimech Bearing-S4S Datasheet

Stravimech Bearing-S4S is a high-performance spring mount featuring four metal springs working in parallel, offering enhanced load distribution and increased stability. Its standout feature is its integrated lateral reinforcement system, which provides superior resistance to lateral forces, ensuring robust performance under dynamic conditions. This solution includes top and bottom mounting plates for secure mechanical anchoring and can be paired with an optional levelling system. It is especially suited for low-speed machinery, delivering effective vibration and noise isolation across a wide range of equipment weights.



FEATURES

- Designed to support all types of machinery operating at low frequencies (below 1200 rpm), ensuring effective vibration control
- Offered with 12 spring variants to accommodate design loads up to 3100 N (total loads up to 5000 N), suitable for a wide range of machinery
- Equipped with lateral reinforcement, providing additional lateral resistance
- Springs are colour-coded for quick and accurate identification on-site
- Can be equipped with a levelling mechanism for precise height adjustment and alignment
- Bottom plate features an elastomeric layer that improves anti-slip properties and adapts to surface irregularities
- Springs achieve natural frequencies of 4 Hz at design load, ensuring optimal vibration isolation
- Spring deflection goes up to 25 mm for consistent performance
- Springs are protected with a polyester-based coating, offering excellent resistance to environmental conditions
- Top and bottom cylindrical metal bushings include a visco-elastic putty layer that prevents metal-to-metal contact and promotes sound-stop





PACKAGING

Model	Reference	Quantity per Box	Weight per Box [kg]	Dimension of Box [mm]
Stravimech Bearing-S4S-125	002184	2	3.86	200 x 200 x 140
Stravimech Bearing-S4S-370	002185	2	4.10	200 x 200 x 140
Stravimech Bearing-S4S-495	002186	2	4.15	200 x 200 x 140
Stravimech Bearing-S4S-620	002187	2	4.21	200 x 200 x 140
Stravimech Bearing-S4S-930	002188	2	4.25	200 x 200 x 140
Stravimech Bearing-S4S-1240	002189	2	4.29	200 x 200 x 140
Stravimech Bearing-S4S-1550	002190	2	4.43	200 x 200 x 140
Stravimech Bearing-S4S-1860	002191	2	4.56	200 x 200 x 140
Stravimech Bearing-S4S-2170	002192	2	4.51	200 x 200 x 140
Stravimech Bearing-S4S-2480	002193	2	4.45	200 x 200 x 140
Stravimech Bearing-S4S-2790	002194	2	4.53	200 x 200 x 140
Stravimech Bearing-S4S-3100	002195	2	4.60	200 x 200 x 140

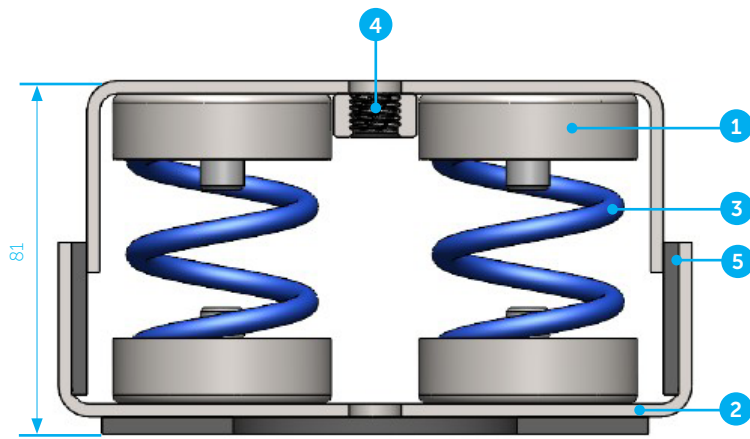


PHYSICAL & MECHANICAL PROPERTIES

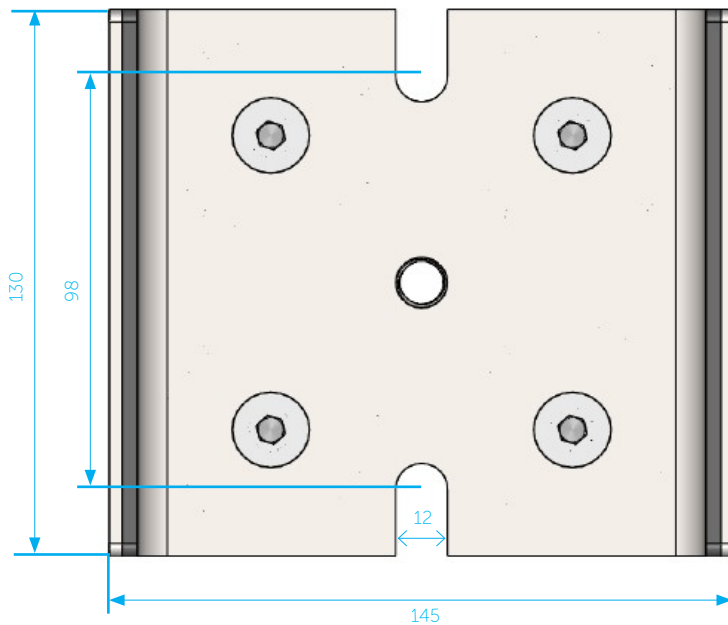
Model	Height	Design Load	Natural Frequency at Design Load	Load Range	Resistance to Uplift	Spring Colour
	mm	N	Hz	N	N	
Stravimech Bearing-S4S-125	81	125	4	40-200	40	
Stravimech Bearing-S4S-370		370		120-600	120	
Stravimech Bearing-S4S-495		495		160-800	160	
Stravimech Bearing-S4S-620		620		200-1000	200	
Stravimech Bearing-S4S-930		930		300-1500	300	
Stravimech Bearing-S4S-1240		1240		400-2000	400	
Stravimech Bearing-S4S-1550		1550		500-2500	510	
Stravimech Bearing-S4S-1860		1860		600-3000	620	
Stravimech Bearing-S4S-2170		2170		700-3500	710	
Stravimech Bearing-S4S-2480		2480		800-4000	800	
Stravimech Bearing-S4S-2790		2790		900-4500	920	
Stravimech Bearing-S4S-3100		3100		1000-5000	1040	

Notes:

- The products are suited to a C3 (medium duration) environment (urban and industrial atmospheres, moderate sulphur dioxide pollution, coastal areas with low salt content).
- Resistance to uplift is tested at room temperature.



1. Steel bushings
2. Mounting plate
3. Polyester-based coated springs
4. M12 threaded insert
5. Lateral reinforcement



Note:
All dimensions in millimeters (mm).



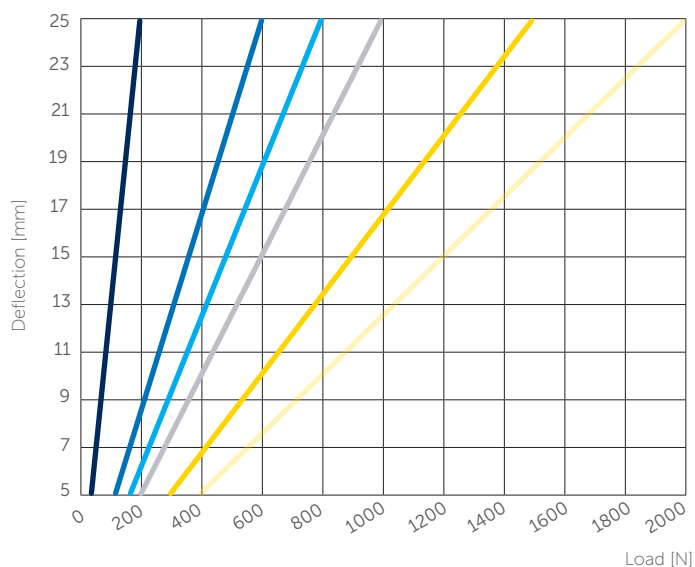
To assess if the Stravimech system is appropriate CDM Stravitec's engineers will need the following information:

- Weight and load distribution of the machine to be supported on Stravimech Bearing supports
- Size and layout of support surfaces
- The dynamic loads generated by the machine
- Dimensional limits
- The required vibration isolation performance or natural frequency of the solution



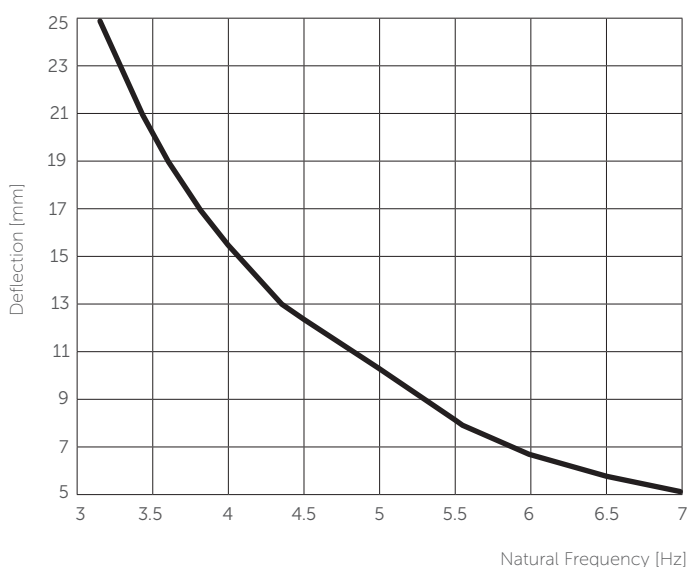
PERFORMANCE GRAPHS

Deflection vs Load

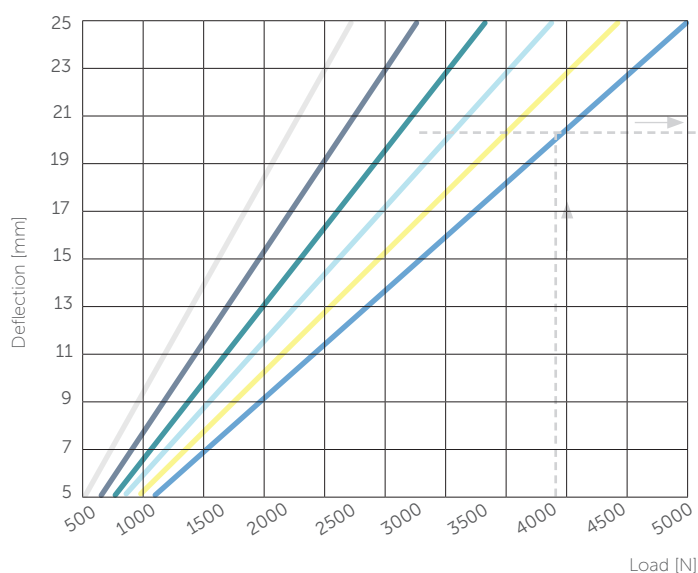


- Stravimech Bearing-S4S-125 ● Stravimech Bearing-S4S-370
- Stravimech Bearing-S4S-495 ● Stravimech Bearing-S4S-620
- Stravimech Bearing-S4S-930 ● Stravimech Bearing-S4S-1240

Deflection vs Natural Frequency

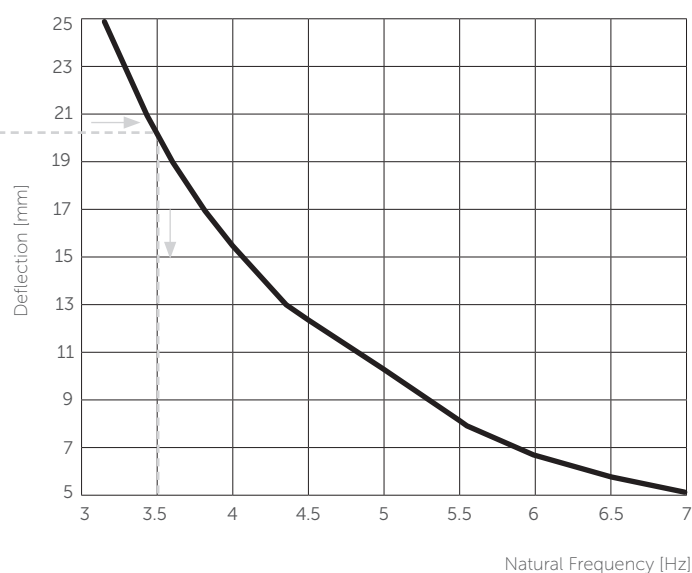


Deflection vs Load



- Stravimech Bearing-S4S-1550 ● Stravimech Bearing-S4S-1860
- Stravimech Bearing-S4S-2170 ● Stravimech Bearing-S4S-2480
- Stravimech Bearing-S4S-2790 ● Stravimech Bearing-S4S-3100

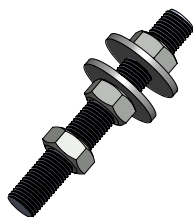
Deflection vs Natural Frequency



The natural frequency of a Stravimech isolator can be determined by its load. To start the calculation use the graph "deflection as function of load" this will provide the deflection at the specified load. Then moving horizontally to the right hand side plot "deflection as function of frequency" on which the corresponding natural frequency can be found. As an example, the natural frequency of a Stravimech Bearing-S4S-3100 loaded with 4000 N is determined. The corresponding deflection is 20.5 mm. The natural frequency of a spring at 20.5 mm deflection is 3.5 Hz.



ACCESSORIES



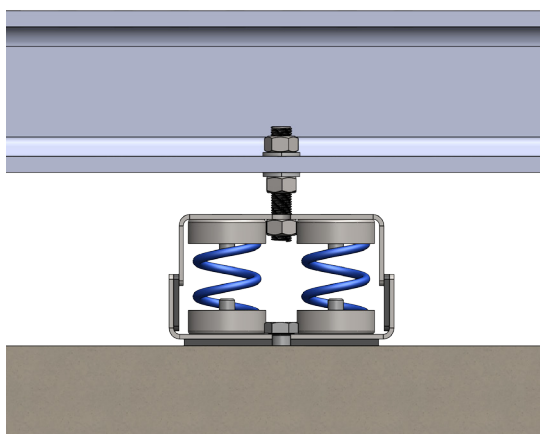
Level Set

Levelling kit consisting of a threaded rod with nuts and washers for height adjustment.

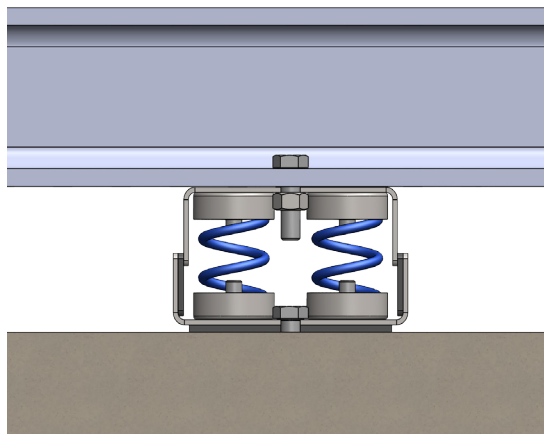
Available in M12.



TYPICAL ASSEMBLIES



Stravimech Bearing-S4S with levelling*



Stravimech Bearing-S4S directly assembled

*Levelling set available as accessory.

DISCLAIMER

This information is accurate to the best of our knowledge at the time of issue. Information, data and recommendations provided are based on industry accepted testing and prior product usage. It is intended as descriptive of the general capabilities and performance of our products and does not endorse applicability for any particular project. We reserve the right to change products, performance, and data without notice. This document replaces all information supplied prior to the publication hereof.