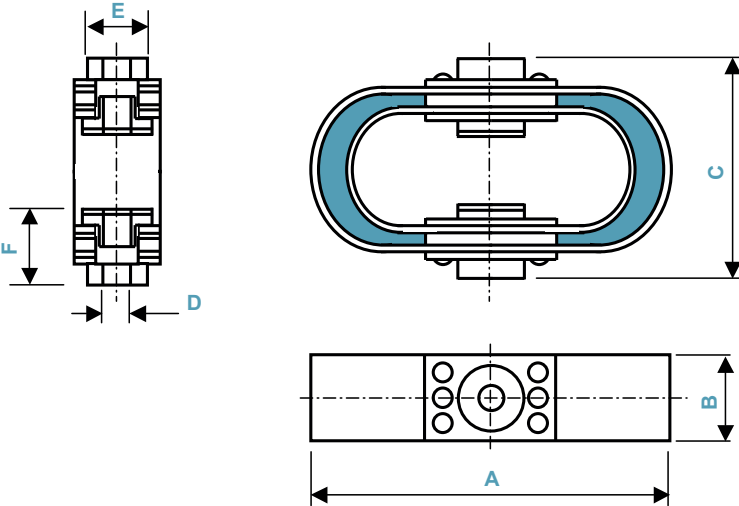


# LEAF SPRING ELASTOMER MOUNTS: X

DEFINITION  
**series LSX**



- Multidirectional anti-vibration/shock mounts.
- Displacement under shock up to 60mm along vertical direction and 40mm along radial.
- Transmissibility :  $2 < Q < 6$ .
- Transmitted acceleration limited to 5g along longitudinal direction and to 15g along vertical and transversal.
- Temperature range:  $-20^{\circ}\text{C} +40^{\circ}\text{C}$ .

Dimensions are in mm. For reference only.

SERIE
Materials and finishes (meets RoHS requirements)
<b>LSX</b>
<b>Leaf and washer:</b> stainless steel
<b>Compound:</b> epoxy resin
<b>Bush:</b> nylon
Coating : Neoprene Paint

LOADS & DIMENSIONS												
type	static load (kg)			A	B	C	D	E	F	mass (kg)	NATO stock number	
	min	nom	max									
-10	9	10	18	203	51	114	9 (M8)	32	23	0,68	5340-99-923-5717	
-20	18	20	35	203	51	114	9 (M8)	32	23	0,80	5340-99-923-5718	
-45	35	45	55	216	51	133	13 (M12)	32	26	1,02	5340-99-923-5719	
-70	55	70	90	216	51	133	13 (M12)	32	26	1,13	5340-99-923-5720	
-110	90	110	135	216	51	133	13 (M12)	32	26	1,25	5340-99-923-5721	
-180	135	180	250	297	102	190	21 (M20)	64	43	5,90	5340-99-520-8429	
-320	250	320	380	297	102	190	21 (M20)	64	43	6,57	5340-99-520-8428	
-450	380	450	550	297	102	190	21 (M20)	64	43	7,25	5340-99-520-8427	
-450S	380	450	550	365	50	210	21 (M20)	32	32	7,25	5340-99-520-6107	

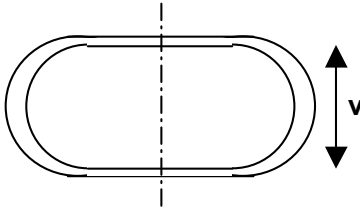
EXAMPLE  
LSX-45

L	S	X	-	4	5
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**PREFIX:**  
'leaf spring' mount  
from the  
LSX series

**MODEL: -45**  
nominal static load: 45kg  
height: 133mm  
length: 216mm  
width: 51mm  
mass: 1,02kg

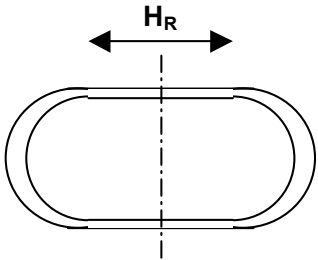




<b>VERTICAL</b>		Model	-10	-20	-45	-70	-110	-180	-320	-450	-450S
LSX Series											
1. Natural Frequency	$f_c$ Hz		6,5	6,5	7,5	6,5	7,0	9,5	8,0	7,5	
	$f_v$ Hz		8,5	8,5	8,5	8,5	8,5	13,0	9,5	9,5	
3. Static Deflection	$d_1$ mm		6,2	6,2	8,6	8,2	7,7	4,3	5,4	4,3	7,7
	$d_2$ mm		8,6	8,6	11,6	11,2	10,5	5,9	7,4	5,9	10,3
Static Stiffness	$k_s$ N.mm <sup>-1</sup>		13	26	44	70	120	350	500	875	
Support											
Stiffness	$k$ N.mm <sup>-1</sup>		200	450	900	1300	2000	3500	6000	8500	8500
Strength	$F$ N		150	300	675	1050	1650	2700	4800	6750	6750



<b>HORIZONTAL ACROSS</b>		Model	-10	-20	-45	-70	-110	-180	-320	-450	-450S
LSX Series											
1. Natural Frequency	$f_c$ Hz		4,5	4,5	5,0	4,75	5,0	4,75	5,25	4,75	
	$f_v$ Hz		6,25	6,25	6,25	6,25	6,25	6,5	6,0	6,0	
Static Stiffness	$k_s$ N.mm <sup>-1</sup>		17	35	58	91	149	665	788	1400	
Support											
Stiffness	$k$ N.mm <sup>-1</sup>		200	450	900	1300	2000	3500	6000	8500	8500
Strength	$F$ N		150	300	675	1050	1650	2700	4800	6750	6750



<b>HORIZONTAL ROLL</b>		Model	-10	-20	-45	-70	-110	-180	-320	-450	-450S
LSX Series											
1. Natural Frequency	$f_c$ Hz		3,5	3,5	4,25	4,0	4,25	4,0	4,25	4,0	
	$f_v$ Hz		5,0	5,0	5,0	5,0	5,0	5,5	5,0	5,0	
Static Stiffness	$k_s$ N.mm <sup>-1</sup>		7	14	24	39	61	175	219	385	
Support											
Stiffness	$k$ N.mm <sup>-1</sup>		200	450	900	1300	2000	3500	6000	8500	8500
Strength	$F$ N		150	300	675	1050	1650	2700	4800	6750	6750

### SPECIFICATIONS APPLICATIONS

Fuel tanks, engines, seats, marine craft installations, ammunitions, generator sets, compressors, pumps, fans, air conditioning units, electric motors, electronic control equipment, laboratory equipment, ...

1. Natural frequency ( $f_v$ ) and shock natural frequency ( $f_c$ )
  2. Mini stiffness ( $K$ ) and strength ( $F$ ) of the support structure to which a mount is attached
  3. Static deflection mini ( $d_1$ ) and maxi ( $d_2$ ) at nominal loading
- \* **IMPORTANT:** Performance characteristics are given here for reference only. They can be increased under specific conditions. **Contact us.**