



Force that
EMPOWERS

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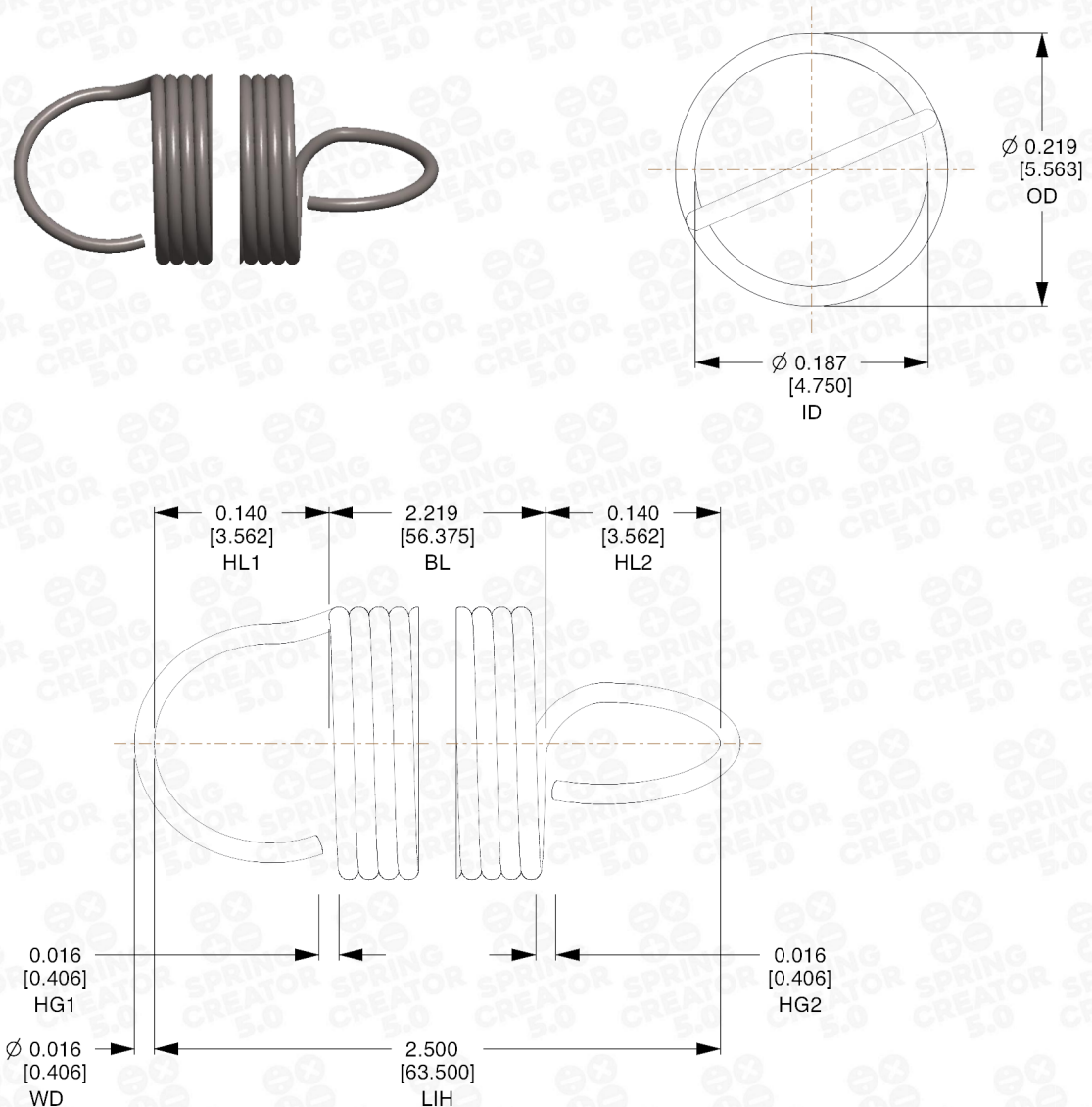
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Part Name:	Date: 06/02/2026
Part #: in (Click to see Part # on Website)	PE016-219-137719-MW-2500-MH-N-IN
Spring Type: Extension Spring	End Type: Machine Hook
Finish: None	Direction of Wind: Right Hand
Material: Music Wire ASTM A228	Spring Index (I): 12.688
Weight / M: 5.068 Lbs	Length of W: 88.706 in

Physical Dimensions	IN	MM	Tolerances (in)
Wire Diameter (WD)	0.016 in	[0.406 mm]	+/- 0.001
Outer Diameter (OD)	0.219 in	[5.563 mm]	+/- 0.005
Mean Diameter (MD)	0.203 in	[5.156 mm]	+/- 0.005
Inner Diameter (ID)	0.187 in	[4.750 mm]	+/- 0.005
Length Inside Hooks (LIH)	2.500 in	[63.500 mm]	+/- 0.100
Body Length (BL)	2.220 in	[56.388 mm]	+/- 0.100
Hook Gap 1 (HG1)	0.016 in	[0.406] mm	
Hook Gap 2 (HG2)	0.016 in	[0.406] mm	
Hook Length 1 (HL1)	0.140 in	[3.556] mm	
Hook Length 2 (HL2)	0.140 in	[3.556] mm	
Total Hook Length (THL)	0.280 in	[7.112] mm	

Spring Rate (K)	0.08170 lbs/in	0.014 N/mm	+/- 0.008
Max Load (ML)	1.002 lbf	4.457 N	+/- 0.100
Max Travel (MT)	11.389 in	289.276 mm	
Initial Tension (IT)	0.071 lbf	0.317 N	
Max Shear Stress Possible (t max)	171550.000 PSI	1182795613.614 Pa	
Material Shear Modulus (G)	11492970.929 PSI	79241245134.131 Pa	
Wahl Correction Factor (W)	1.113	1.113	



Note: Body Length, Total Coils, End Type and End Position is for reference only.

Notes	Scale: 6.621	Revision #:	Drawn By:	Approved By:
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