



CONTROL PLAN

<input type="checkbox"/> Prototype	<input type="checkbox"/> Pre-launch	<input checked="" type="checkbox"/> Production	Key Contact / Phone :	Udham Singh / 9729202173 udham.singh@sssprings.com	Control plan Date	Rev.no	Change Details
Control Plan Number :	Control Plan Number : CP/ ETL/005				14.08.2019	00	Originated
Part Number / Latest Change Level :	FIGN011020/XC		Core Team :	Mr.Shashank,Mr.Chandrasekhar, Mr.Manikant,Mr.Yash,Mr.Paresh, Mr. Maheshwar, Mr.Parmanand	16.03.2020	01	At shotpeening process Batch qty fixed as 300-400 Nos & 100% Bend checking added at OP 60.
Part Name / Description :	Main Spring (K86A)				10.07.2020	02	Length group sorting and process parameter added in grinding Shotpeening time reduced from 20 Min to 5 Minute and outer dia changed as per customer requirements.
Supplier / Plant : SS&S - HALOL	Customer :	Endurance Technologies Ltd.	Supplier / Plant Approval / Date		07-04-2021	03	Bend checking gauge implemented at 100% inspection process at OP60 against customer complain
					18.06.2021	04	Testing Frequency & Reaction Plan updated for the error proofing established at tempering process
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Reaction Plan & Corrective action : 1. Reject and return to supplier , raise CAR for corrective & preventive action , 2. Stop production Quarantine the suspect parts and Check some more parts (Sort if required) / do 100 % inspection / Rework (MF-WI-0011) / Reject / reset the parameters in consultation with Engineers and revalidate process (if necessary)

Part / Process No.	Process Name / Operation Description	Machine, Device, Jig Tools for Mfg.	Characteristics			Special Char. Class	Methods		Evaluation / Measurement Technique	Sample		Control Method & Error Proofing	Responsibility & Record	Reaction Plan & Corrective action
			No.	Product	Process		Product/Process Specification/Tolerance as per drg	Stage specification of Product / Process parameters		Size	Freq.			
5	Receipt & Inspection of raw material	-----	1	Diameter of the wire	-----	-----	3.2±0.030mm	3.2±0.030mm	Verification of Sup.TC /Insp. report , DC and Identn tag	Once	Every Lot	Verification during Receipt	Stores Incharge, Goods Receipt Note / SAP	
			2	Grade	-----	-----	IS 4454 GR-III	IS 4454 DH						
			3	Mechanical properties	-----	-----	IS 4454 DH	Tensile strength / Chemistry	Verification of Sup TC Micrometer	As per Sampling Plan QS - WI - 100	Incoming Inspection & Cross verification	Quality Inspector, Inward inspection record Supplier TC		
			4	Diameter of the wire	-----	-----	3.2±0.030mm	3.2±0.030mm						
	Visual	-----	5	Appearance	-----	-----	Should be free from Oiled,Rust and Damage	Should be free from Oiled,Rust and Damage	Visual					
	Storage of materials	-----	1	Appearance	-----	-----	Should be free from Rust and Damage and to be Stacked in the allocated & identified racks with proper packing & Identification tag	Visual Verification	Once	Every week	Cross verification	Stores Incharge		
10	Winding RH	Winding machine TK-550	1	Wire diameter	-----	-----	3.2±0.030mm	3.2±0.030mm	Micrometer	Once	Every setup	First Sample approval	operator MF-FR-001A/02	Follow 4M change cum abnormality handling matrix
			2	Outer Diameter Bigger side	-----	-----	23.3 ± 0.2 mm	23.30 - 23.50	Vernier caliper	2 nos	Every setup & 30 Minutes	First Sample approval & PMC	Operator MF-FR-001A/02 MF-FR-005 - REV-02	
			4	Outer Diameter taper Side	-----	-----	20.5+ 0.3 mm	21.8-22.2	Vernier Caliper					
			5	Free Length	-----	-----	215.4 + 4.0 / 0.0 mm	221 - 225.5	Vernier caliper / Length Gauge					
			6	Total coils	-----	-----	33.9 ref	33.30-33.60	Manual Count					
			7	Appearance	-----	-----	Free from Tool mark,Burr,breakage	Free from Tool mark,Burr,breakage	Visual					
			8	Coil Direction	-----	-----	RH	RH	Visual					
			9	Deflection @ 20.0 mm	-----	-----	82.4± 7% N	8.39± 7% Kgf	Elasticometer	2 Nos	Every setup	First Sample approval	Operator MF-FR-001A/02	
				Deflection @ 40.0 mm	-----	-----	164.8 ± 7% N	16.79± 7% Kgf	Elasticometer					
				Deflection @ 60.0 mm	-----	-----	247.2 ± 7% N	25.19± 7% Kgf	Elasticometer					
				Deflection @ 72.5 mm	-----	-----	298.7N	30.44Kgf	Elasticometer					
				Deflection @ 85.0 mm	-----	-----	396.8 ± 7% N	40.44± 7% Kgf	Elasticometer					
			Deflection @ 95.0 mm	-----	-----	475.3 ± 7% N	48.45± 7% Kgf	Elasticometer						
Deflection @ 101.9 mm	-----	-----	529.5N	53.97Kgf	Elasticometer									
10	Spring rate K1	-----	-----	4.12±7% N/mm	0.41±7% Kg/mm	Elasticometer								



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Part / Process No.	Process Name / Operation Description	Machine, Device, Jig Tools for Mfg.	Characteristics			Special Char. Class	Methods		Evaluation / Measurement Technique	Sample		Control Method & Error Proofing	Responsibility & Record	Reaction Plan & Corrective action
			No.	Product	Process		Product/Process Specification/Tolerance as per drg	Stage specification of Product / Process parameters		Size	Freq.			
			11	Spring rate K2		7.85±7% N/mm	0.80±7% Kg/mm	Elasticometer					
			12	Program No.		13	13	Visual	once	Every Setup	First sample approval		
			13	Feed roller pressure		0.4 to 0.6 Mpa	0.4 to 0.6 Mpa	Visual	once	Every Shift	DPM Check sheet	Operator MF-FR-018	



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			No.	Product	Process		Product/Process Specification/Tolerance as per drg	Stage specification of Product / Process parameters		Size	Freq.				
20	Stress Relieving	Stress relieving Furnace	1	-----	Temperature	-----	-----	280°-320°C	Temperature Indicator	Once	Once in shift	Verify Temperature daily during shift start.	operator MF-FR-018		
			2	-----	Duration	-----	-----	10 ' Min	Timer						
			3	Outer Diameter Bigger side			23.3 ± 0.2 mm	23.1-23.3	Vernier/Bush gauge	2Nos	Verification at setup				
			4	Outer Diameter taper Side			22.2 ± 0.2 mm	21.6-22.0	Vernier/Bush gauge						
30	Grinding	Grinding M/C SGM 12-2,3,4	1	Free Length	-----	-----	215.4 + 4.0 / 0.0 mm	217 - 222	Vernier/Height gauge	2 nos	Every setup & 30 Minutes	First Sample approval & PMC	Operator (MF-FR-052A) & PMC (MF-FR-005A - Rev - 02)	Follow 4M change cum abnormality handling matrix	
			2	Ends types	-----	-----	Squared & Ground	Squared & Ground	Visual						
			3	Squareness (e1)	-----	-----	6.5mm Max	6.5mm Max	Angle block/Filler gauge						
			4	Appearance	-----	-----	Free from Burr,dent,breakage,damage & End coil damage	Free from Burr,dent,breakage,damage & End coil damage	Visual	5 Nos	Every Shift	First Sample approval	Operator (MF-FR-052A)		
			5	Parallelism (e2)	-----	-----	0.50mm Max	0.50mm Max	Dial Gauge/Surface plate						
			6	Tipthickness	-----	-----	0.80 mm Min	0.80 mm Min	Digital caliper						
			7	Solid height	-----	-----	108.6 mm	108.6 mm	Elasticometer						
			8	-----	Dressing of wheels	-----	-----	-----	Wheel Dresser	----	Every 4 hour.	-----	Operator, PMC (MF-FR-005 A-Re-02)		
			9	-----	Dresser Unit	-----	-----	-----	Check for free movement	By hand Visual	Once	Every Shift	DPM Check sheet		Operator (MF-FR-018)
			10	-----	Dust Collector	-----	-----	-----	Check dust Extraction systems.	Visual					
			11	-----	Gap b/w grinding wheel & Guide plate < 5.0 mm	-----	-----	-----	< 5.0 mm	Feeler Gauge					
			12	-----	Before grinding Position	-----	-----	-----	225-305mm	Visual	Once	Every Shift	First Sample approval		Operator First sample report (MF-FR-052A)
			13	-----	Before grinding Spring Length	-----	-----	-----	223-303mm	Visual					
			14	-----	Grinding Feed Speed	-----	-----	-----	1.2-1.6m/min	Visual					
			15	-----	Finish Grinding time	-----	-----	-----	60-120 Sec.	Visual					



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			No.	Product	Process		Product/Process Specification/Tolerance as per drg	Stage specification of Product / Process parameters		Size	Freq.			
			16	-----	Total time of cycle	-----	-----	125-210 Sec	Visual					
			17	-----	Magazine Plate Speed	-----	-----	25-30 RPM	Visual					
			18	Length group Sorting before grinding-1	-----	-----	-----	221-222.5mm	Length Gauge					
			19	Length group Sorting before grinding-2	-----	-----	-----	222.51-224mm	Length Gauge	100%	Every Shift	----	Operator	



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			20	Length group Sorting before grinding-3			224.1-225.5mm	Length Gauge							
40	Shot peening	Shot Peening Machine (SP-02,03,04)	1	-----	Shot Size	-----	-----	0.60 mm	Profile projector/Micrometer	Once	Every Batch	-----	Quality inspector		
			2	-----	Arc height	-----	-----	0.3 - 0.38	Almen Dial Gauge		Every week	Checked with Almen strip			
			3	-----	Duration	-----	-----	5 Minutes min.	Timer		Every Batch	First sample @ stage between process	Operator Shotpeening record MF-FR-10F		
			4	-----	Coverage	-----	-----	90% Min	95 % (minimum)						Comparison with Std Photograph
			5	-----	Amperage	-----	-----	12-15 amp	12-15 amp		Visual	Once In Quarter	R & D and XRD logbook.		
			6	-----	Residual Stress Check	-----	-----	-100 'to -1000 Mpa	-----		XRD				
			7	-----	Sieveing	-----	-----	-----	-----		Sieve Analyser	Once in 48 hours	Operator (PMC board)		
			8	-----	Batch Qty.	-----	-----	-----	300-400 Nos		Count	100%	Every Batch		Process inspection
50	Scragging	Hydraulic press	1	-----	Setting Height	-----	130 mm	130 mm	-----	Once	Every Batch	First Sample Approval	Operator		
			2	-----	Bend	-----	-----	No Bend	No Bend					Visual	
60	100% Lo,OD,e1 & bend sorting and correction	Manual	1	-----	Free Length	-----	215.4 + 4.0 / 0.0 mm	215.4 + 4.0 / 0.0 mm	Length Gauge	100%	Evey batch	First Sample Approval	Quality inspector	Follow 4M change cum abnormality handling matrix	
			2	-----	Length Gauge Size	-----	Must answer the length 215.4 + 4.0 / 0.0 mm	Must answer the length 215.4 + 4.0 / 0.0 mm	Length Gauge	Once	Every Shift	First Sample Approval & MF-WI-007	Quality inspector		
			3	-----	Outer Diameter Bigger side	-----	-----	23.30 ± 0.20 mm	23.1-23.3	Bush gauge	100%	Every Batch	First Sample Approval		Operator
			4	-----	Squareness (e1) With Respect to Small O.D (During Inspection Small O.D surface should rest at Right angle inspection block	-----	-----	6.5mm Max	6.5mm Max	Angle block/Filler gauge					
			5	-----	Wavyness & Bend	-----	-----	Not allowed	Not Allowed	Surface plate & Bend checking gauge					
70	Stress Relieving (LTA)	Stress relieving Furnace	1	-----	Temperature	-----	-----	200°- 220° C	Temperature Indicator	Once	Once in shift	Verification @ setup	Operator MF-FR-10D		
			2	-----	Duration	-----	-----	-----	8' Minimum					Timer	
			1	-----	Oil Coverage	-----	100% Coverage	100 % coverage	Visual	Random	Every Lot	-----			



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80	Oiling	Oiling Tank	2	Oil Grade	RUSTOP 173 & 274	-----	-----	RUSTOP 173 & 274	Visual	Once	Every Lot	-----	Operator Register	
			3	Oil Change Frequency	-----	-----	-----	-----	-----	Visual	Once	Every 15 days		
90	Final Inspection	Measuring & Testing Equipment	1	Product parameter	-----	-----	As per drg	As per Inspection std. QS-IP-FFFS70127	QS-WI-001	QS-WI-003	Every batch	QS-FR-006	QA Inspector (QS-FR-006)	
100	Packing	Weighing m/c & Packing materials	1	Parts damage	-----	-----	Free from damage	Free from damage	Visual	100%	Evey batch	Final stage	Dispatch peoples	
			2	Less Qty	-----	-----	As per the invoice	As per the invoice	Visual	100%	Every batch	Final stage	Operator	
			3	Parts mix up	-----	-----	Free from other parts	Free from other parts	Visual	100%	Every batch	Final stage	Operator	
			4	Quantity	-----	-----	-----	200no's / plastisc bin	Visual	100%	Every batch	Final stage	Operator	
			5	Parts mix up	-----	-----	Free from other parts	Free from other parts	Visual	100%	Every batch	Final stage	Operator	
m/c - Machine		Inspection plan-QS-IP-FFFS70127			QS-FR-006 - Inspection flow sheet			QS-WI-001-Work instuction for Checking method			QS-WI-003- Work instuction for Sampling plan			