

Defect Details

NC No.	8000832053
NC Date	08/06/2023
NC Submission Date	
Part No.	520DZ00212
Part Name	FORK BOLT K60-(DS181012)
Supplier Name & Code	101263-SINGLA PRECISION SCREWS
ETL Plant	1117-ETL K-228/9 Suspension
Defect Details	NOT AS PER SPECIFICATION-INCOMPLETE THEADING OBSERVED

1. Problem Description

Defect Description	M10 Threading operation incomplete
Detection Stage	Receipt
Problem Severity	Fitment
NG Quantity	10
Is Defect Repeatative?	No
Defect Sketch / Photo	

Supplier Communication Details

Quality Head Email ID	quality@singlaprecision.com
Plant Head/CEO Email ID	quality@singlaprecision.com
MD Email ID	aditya@singlaprecision.com

2. Stock Details & action taken for NG parts

Location	ETL End	Warehouse	Transit	Supplier FG	Supplier WIP	Total
Total Qty	2500	2000	0	1500	1000	7000
Check Qty	2500	2000	0	1500	1000	7000
NG Qty	1	0	0	0	0	1

Action taken on NG part

Scrap	1
Rework	0
Under Deviation	0

Containment Action

We checked 100 % material lying at various stages.

3. Process Flow

Process Flow Description

1. RM INCOMING 2. CNC TURNING 3. TAPPING 4. THREAD ROLLING 5. PLATING 6. RE-TAPPING CHECK 7. FINAL INSPECTION 8. PACKING

4. Process Details

Process / Operation	TAPPING
Outsource	No
Machine / Cell	TAPPING MACHINE
Machine / Cell No.	TP02

5. Problem Analysis

Type	Possible Cause	Fact Verification	Jud
Method	INSPECTION PLAN NOT EFFECTIVE	VALIDATED AND FOUND INSPECTION PLAN NOT EFFECTIVE SO PART SKIPPED FROM INSPECTION	X
Material	RM GRADE AND SIZE NOT OK	VALIDATED AND FOUND OK	O
Man	UNAWARENESS OF OPERATOR	VALIDATED AND FOUND OPERATOR WAS NEW AND PUT THE INCOMPLETE OPERATION PART IN FINISHED PARTS	X
Tool	TOOL MAY WEAR	VALIDATED AND FOUND OK	O
Machine	NUT BOLTS MAY LOOSE	Nut of limit switch got loose due to which slide plate got tilted and tap not came to its position.	O

6. Inspection Method Analysis (Current)

Inspection Method	Gauge
Other Inspection Method	
Check Point at Final Inspection	Yes
Checking Freq.	Sampling
Sampling	No
Sample Size	5 PCS/HOUR

7. Root Cause Analysis (Occurance)

Why 1	M10 THREAD INCOMPLETE
Why 2	PROBLEM OCCURED AT TAPPING STAGE
Why 3	Nut of limit switch got loose due to which slide plate got tilted and tap not came to its position and threading operations left incomplete.
Why 4	THE OPERATOR WAS UNAWARE AND PUT THE INCOMPLETE OPERATION PART IN FINISHED PART BIN.
Why 5	SO NG PART MIXED WITH FINISHED PARTS
Root Cause (Occurance)	Nut of limit switch got loose due to which slide plate got tilted and tap not came to its position and threading operations left incomplete.THE OPERATOR WAS UNAWARE AND PUT THE INCOMPLETE OPERATION PART IN FINISHED PART BIN.SO NG PART MIXED WITH FINISHED PARTS.

Root Cause Analysis (Outflow)

Why 1	M10 THREAD INCOMPLETE
Why 2	INSPECTION PLAN WAS NOT EFFECTIVE
Why 3	NG PART SKIPPED FROM INSPECTION

Why 4	SO NG PART DELIEVERED TO CUSTOMER
Why 5	
Root Cause (Outflow)	INSPECTION PLAN WAS NOT EFFECTIVE.NG PART SKIPPED FROM INSPECTION.SO NG PART DELIEVERED TO CUSTOMER.

8. Countermeasure (Occurrence , Outflow & System side Actions)

Type	Countermeasure Details	Responsibility	Target Date	Actual Date	Status
Outflow	INSPECTION FREQUENCY CHANGED TO 100%	GANESH MAURYA	12/06/2023	12/06/2023	Completed
Occurance	Double nut lock tightening done to prevent the nut from loosing and Training given to Operator regarding putting the NG part into Red bin.	Ganesh Maurya	12/06/2023	12/06/2023	Completed

9. Inspection Method After Customer Complaint

Change In Inspection System	Yes
Change Details	100% RETAPPING CHECK DONE AFTER PLATING PROCESS.
Inspection Method	Gauge
Other Inspection Method	
Check Point at Final Inspection	Yes
Checking Freq.	Sampling
Sampling	No
Sample Size	50/1200

10. Evidance of Countermeasure

Occurance (Before)	Nut of limit was loose. 469_Occurance_Before.pdf
Occurance (After)	Double nut lock tightening done to prevent it from loosing. 469_Occurance_After.pdf
Outflow (Before)	INSPECTION FREQUENCY WAS 5 PCS/HOUR 469_Outflow_Before.pdf
Outflow (After)	INSPECTION FREQUENCY UPDATED 469_Outflow_After.pdf

11. Horizontal Deployment

Horizontal Deployment Required	Yes
Applicable Machine / Model / Plant	FORK BOLT PRFH,FORK BOLT BOXER,FORK BOLT HMS-30

12. Document Review

Documents	ControlPlan, WISOP
Specify Other Document	NO

13. Effectiveness Of Action

Reviewed Quantity	100
Reason for submission	Verified next 3 lot and found