

Defect Details

NC No.	7000884966
NC Date	21/12/2022
NC Submission Date	
Part No.	520AE05702
Part Name	CORE PLATE - SHINE & UNICORN
Supplier Name & Code	101145-STAR PROJECTS INDIA
ETL Plant	1132-ETL K-226/1 TRANSMISSION
Defect Details	FLATNESS NOT OK.-Not qualify to gap gauge

1. Problem Description

Defect Description	Not qualify to gap gauge (Flatness found up to 0.2 mm against 0.1 mm)
Detection Stage	Receipt
Problem Severity	Function
NG Quantity	1615
Is Defect Repeatative?	Yes
Defect Sketch / Photo	

Supplier Communication Details

Quality Head Email ID	qualityhead@starprojectsindia.com
Plant Head/CEO Email ID	engineering@starprojectsindia.com
MD Email ID	ishant@starprojectsindia.com

2. Stock Details & action taken for NG parts

Location	ETL End	Warehouse	Transit	Supplier FG	Supplier WIP	Total
Total Qty	8000	23000	46000	0	10000	87000
Check Qty	8000	5000	0	0	4500	17500
NG Qty	1615	211	0	0	8	1834

Action taken on NG part

Scrap	1615
Rework	0
Under Deviation	0

Containment Action

All Material has been hold for 100 % Re-inspection with proper identification

3. Process Flow

Process Flow Description

Receipt of Raw material+ Storage of raw material+ Hold cum melting +PDC+ First Trimming +Shot Blast+2nd Trimming+ Barreling +Shot blasting+ sound testing+ stress relieving +final inspection & packing +Storage & dispatched

4. Process Details

Process / Operation	PDC & Final Inspection
Outsource	No
Machine / Cell	MC-10
Machine / Cell No.	MC-10

5. Problem Analysis

Type	Possible Cause	Fact Verification	Jud
Man	Negligency Done by Inspector	Bajnath,Rekha,Shyamveer)Training record & Skill amtrix available for same(F13/P&A(OJT),found ok	O
Machine	Gap Gauge Wear Out	Gap Gauge Validation & Verification Plan Available and Adhered (F07/QAD(JFR)	O
Method	Improper flatness of stress relieving fixture	Fixture validation plan available and adhered(F07A/QAD(JFR)	O
Method	Tie bar Bolt Balancing	Tie Baar Bolt Was found Un-Balance	X
Method	Improper Stress relieving Parameter	Stress relieving Parameter Observed Temp. 261°C against 270±20°C ,Time obsd 30 minutes Against 25±5	O

6. Inspection Method Analysis (Current)

Inspection Method	Gauge
Other Inspection Method	
Check Point at Final Inspection	Yes
Checking Freq.	100%
Sampling	No
Sample Size	Per Lot

7. Root Cause Analysis (Occurance)

Why 1	Core Plate-C101 Not Qualify to gap gauge
Why 2	One face of the die was found in tapper
Why 3	Tie bar Bolt was found Un-Balance
Why 4	Tie bar Bolt Locking or fix mechanism not available
Why 5	Possibility not considered during define the daily machine check sheet
Root Cause (Occurance)	Tie bar Bolt Locking Mechanism Broken

Root Cause Analysis (Outflow)

Why 1	Core Plate-C101 Not Qualify to gap gauge
Why 2	100% parts was not passed from gap gauge.
Why 3	Gap gauge set on 2.12 mm but as per existing part calculation should be 2.09 mm
Why 4	Gap gauge size can be change as per part thickness
Why 5	Gap gauge setting frequency not defined

Root Cause (Outflow)

Due to Base Size and lug size of Receiving gauge was set at higher Point.

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

Type	Countermeasure Details	Responsibility	Target Date	Actual Date	Status
Occurance	Tool history to be maintained	Ajay Malik	26/12/2022	26/12/2022	Completed
Outflow	200% inspection started with identification ,Identification also defined for warehouse and star end.	Ajay Malik	22/12/2022	22/12/2022	Completed
Outflow	Gap gauge setting & verification started on daily basis as per (15 part avg. thickness +Flatness +Passing allowance 10 microns)	Ajay Malik	23/12/2022	23/12/2022	Completed
Outflow	Gap gauge size varification check point added in Pre-Dispatch inspection report	Ajay Malik	23/12/2022	23/12/2022	Completed
Occurance	Daily Machine check sheet updated	Ajay Malik	26/12/2022	26/12/2022	Completed
Outflow	Quality Alert made and displayed at concerned area	Ajay Malik	22/12/2022	22/12/2022	Completed
Outflow	Training has been provided to Operator	Ajay Malik	22/12/2022	22/12/2022	Completed
Occurance	Tie Bar Bolt Locking Mechanism to be made and freezed	Ajay Malik	30/12/2022	30/12/2022	Completed
Occurance	Tie Bar Bolt Locking Mechanism to be made and freezed	Ajay Malik	22/12/2022	22/12/2022	Completed
Occurance	.PDC Tool to be rectified and thickness maintain on 1.95 to 2.00 mm instead of 1.95 ~2.05 mm	Ajay Malik	26/12/2022	26/12/2022	Completed

9. Inspection Method After Customer Complaint

Change In Inspection System	Yes
Change Details	Gap gauge setting & verification started on daily basis as per (15 part avg. thickness +Flatness +Passing allowance 10 microns)
Inspection Method	Gauge
Other Inspection Method	
Check Point at Final Inspection	Yes
Checking Freq.	100%
Sampling	No
Sample Size	Per Lot

10. Evidance of Countermeasure

Occurance (Before)	Tie bar Bolt Locking or fix mechanism not available 324_Occurance_Before.pdf
Occurance (After)	Tie Bar Bolt Locking Mechanism to be made and freezed 324_Occurance_After.pdf
Outflow (Before)	Gap gauge set on 2.12 mm but as per existing part calculation should be 2.09 mm 324_Outflow_Before.pdf
Outflow (After)	Gap gauge setting & verification started on daily basis as per (15 part avg. thickness +Flatness + Passing allowance 10 microns) 324_Outflow_After.pdf

11. Horizontal Deployment

Horizontal Deployment Required	Yes
---------------------------------------	-----

**Applicable Machine /
Model / Plant**

All Models of Core Plate

12. Document Review

Documents

WISOP, InspCheckSheet

Specify Other Document

No

13. Effectiveness Of Action

Reviewed Quantity

5000

Reason for submission

OK