

Defect Details

NC No.	7000834209
NC Date	30/04/2022
NC Submission Date	
Part No.	520FN01902
Part Name	CLUTCH HOLDER BM-150
Supplier Name & Code	202375-ADVANTECH ENGINEERING COMPANY
ETL Plant	1132-ETL K-226/1 TRANSMISSION
Defect Details	DIMETER UNDERSIZE-4Hole Dia 6.2+01 o/s no go Gauge Qualyfn

1. Problem Description

Defect Description	4 Hole Dia 6.2+01 oversize no go Gauge Qualifying
Detection Stage	Receipt
Problem Severity	Function
NG Quantity	320
Is Defect Repeatative?	No
Defect Sketch / Photo	

Supplier Communication Details

Quality Head Email ID	quality@advantechgroup.co.in
Plant Head/CEO Email ID	info@advantechgroup.co.in
MD Email ID	harishpathade@advantechgroup.co.in

2. Stock Details & action taken for NG parts

Location	ETL End	Warehouse	Transit	Supplier FG	Supplier WIP	Total
Total Qty	1200	0	0	1500	800	3500
Check Qty	1200	0	0	1500	800	3500
NG Qty	320	0	0	0	0	320

Action taken on NG part

Scrap	320
Rework	0
Under Deviation	0

Containment Action

On VMC PCD Hole Carbide step drill (size 6.28 mm) replaced and new size of drill 6.24 mm for maintain hole ID 6.2+0.1 mm. Drill change frequency after 40000 nos.

3. Process Flow

Process Flow Description

Receiving of Casting + CNC Turning -- VMC 4 hole drilling --- Final inspection --Dispatch

4. Process Details

Process / Operation	CNC- Turning, VMC- PCD hole Drill
Outsource	No
Machine / Cell	Machine Shop
Machine / Cell No.	VMC - 01

5. Problem Analysis

Type	Possible Cause	Fact Verification	Jud
Machine	PCD hole ID 6.2+0.1 mm taken higher side.	No Go pass	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	32

7. Root Cause Analysis (Occurance)

Why 1	PCD Hole ID 6.2+0.1 mm No GO Passed
Why 2	PCD hole ID 6.2 +0.1 taken higher side as per customer requirement.
Why 3	PCD hole step drill size 6.28 mm
Why 4	
Why 5	
Root Cause (Occurance)	On VMC PCD hole step drill size 6.28 mm

Root Cause Analysis (Outflow)

Why 1	PCD Hole ID 6.2+0.1 mm No GO Passed
Why 2	PCD hole ID - inspection not done with plug gauge at final stage.
Why 3	PCD hole ID by Plug gauge - I Do I check by operator at Machining stage.
Why 4	
Why 5	
Root Cause (Outflow)	PCD hole ID by Plug gauge - I Do I check by operator at Machining stage.

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

Type	Countermeasure Details	Responsibility	Target Date	Actual Date	Status
Occurance	1. On VMC PCD hole step drill size 6.28 mm replaced with new size 6.24 mm 2. Hole ID inspection started by Plug gauge at final stage on sampling basis.	Mr. Kuldeep /Vasant	03/05/2022	03/05/2022	Completed

9. Inspection Method After Customer Complaint

Change In Inspection System	Yes
Change Details	Hole ID inspection started by Plug gauge at final stage on sampling basis.
Inspection Method	Gauge
Other Inspection Method	
Check Point at Final Inspection	Yes
Checking Freq.	Sampling
Sampling	No
Sample Size	10

10. Evidance of Countermeasure

Occurance (Before)	PCD Hole Step Drill Size-6.28 mm 83_Occurance_Before.xlsx
Occurance (After)	PCD Hole Step Drill Size-6.24 mm 83_Occurance_After.xlsx
Outflow (Before)	Plug Gauge inspection at VMC machine after hole drill operation 83_Outflow_Before.xlsx
Outflow (After)	Plug gauge inspection started at final stage as per sampling plan 83_Outflow_After.jpg

11. Horizontal Deployment

Horizontal Deployment Required	No
Applicable Machine / Model / Plant	NA

12. Document Review

Documents	ControlPlan, WISOP, InspCheckSheet
Specify Other Document	NA

13. Effectiveness Of Action

Reviewed Quantity	10000
Reason for submission	Cause side and inspection side action not proper