

## MTS-Test Workmanship Standards

Workmanship Standards Number: 02-03

- 1.1 Name: Machining Mill Steps, Tool Marks, Chatter Marks
- 1.2 Workmanship Standards Category: Metal Fabricated Materials
- 1.3 Purpose/Description (why/when/how): The existence of unacceptable Mill Steps, Tool Marks, and Chatter Marks creates risks to meeting function and quality requirements of assembled components and subsequent operations.
- 1.4 Illustration:

The following illustrations depict "Acceptable" and "Unacceptable" workmanship results.

Acceptable Workmanship	Acceptable Notes
	Surfaces show evidence of cutter marks which are burr free and are within the di- mensional and surface roughness require- ments.
	Port spot face is clean and free of steps and marks across entire face and edges.



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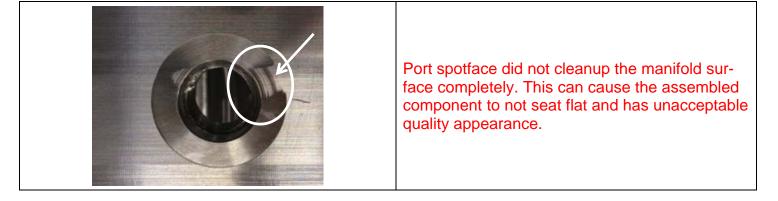
Unacceptable Workmanship	Unacceptable Notes
Milling cutter steps	Cutter has left a burr, in the bottom of the part, between cutter passes that exceed the surface finish tolerance on the print. This can lead to marking or incorrect fitment of mating compo- nents.
Vibration marks	Cutter vibration has created chatter marks with the surface finish not meeting print specification.
	Cutter marks that create surface finish out of print specification. This can cause failures or re- work in subsequent operations. Examples such as nylon adherence failures and assembly fit- ment issues.



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## 2 REVISION HISTORY & APPROVAL

REVISION HISTORY				
Rev	Description of Change	Author	Effective Date	
А	Initiated	Jim Fischer		

APPROVAL OF CURRENT REVISION				
Name / Function	Signature	Date		
Stephen Jordheim / Workmanship Standards Process Owner				
Alan Rivers / Workmanship Standards Co-Pilot				