

STANDARD INSPECTION GUIDELINES AND PROCEDURES

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RESPONSIBILITIES

As a Xometry partner, it is your responsibility to provide full inspection reports on parts using the guidelines outlined in this document, and to provide all needed documentation by uploading it all on to the partner portal.

INSPECTION PROCEDURES

Inspection of Parts With a Provided Print

When a print is provided with the parts, all dimensions and notes on the print must be checked along with the following:

- Correct material to drawing spec
- Material test reports if required
- Plating and certification
- Surface roughness (125 or better unless noted)
- Inserts are installed correctly
- Parts are deburred
- Parts are clean

Inspection of Parts Without a Provided Print

When a part does not have a print provided with it, the following needs to be checked every time to verify correct setup and programming:

- Correct material used
- Material test reports if required
- Plating and certification
- Overall length, width, and height
- Hole diameters and depths
- Thread sizes and depths (note: thread depths are a frequent failure)
- Pocket/step depths (at least 1 depth per face)
- Corner radii correct to model (note: this is a frequent failure)
- Each face should have at least 1 feature check for X and Y location from zero edge
- Surface roughness (125 or better unless noted)
- Inserts are installed correctly,
- Parts are deburred
- Parts are clean and threaded holes do not have chips packed in the bottom

INSPECTION REPORTS

An inspection report is required for every job you do with Xometry. Inspection reports can be hand written or typed on the Xometry inspection report template. All inspection reports are to be uploaded to the appropriate location before shipping. To download a Xometry Inspection Report template for use in your shop, visit the **Resources** section of the Partner Portal or the **Xometry Partner Guide**.



INSPECTION CHECKLIST

PART	Sample	DRAWING: Sample
ORDER ID: Sample		INSPECTOR: Sample
DATE: 01/23/19		
<u> </u>	Verify quantity of machined parts is in	accordance with purchase order.
\checkmark	Verify that machined parts are free of caused by machining.	burrs, sharp edges, blemishes, or discoloration
✓	When applicable, verify that the part inserts are installed and that the insert quantities are in accordance with the purchase order.	
✓	When applicable, verify that the threac with the purchase order.	led and tapped hole quantities are in accordance
NA	When applicable, verify the part finish streaking, and free of runs or blisters.	is uniform, not flaking, peeling, cracking, or
NA	When applicable, verify that the part wel	ded joints are in accordance with the purchase order.
\checkmark		ordance with the customer-supplied print and/or looned and correlated to the inspection report.
✓	Packing Slip, and any other documenta	ocumentation to include but not limited to the ation defined in Purchase Order (such as Material cuments, Certificate of Conformance, inspection
QC SIGNATURE:		

The checklist above is for reference and should not be shipped.





Inspection Report

Form QA2F04 Rev 1

PO Number: 123456 Date: 3/5/19 Part ID: 00ABCDE Sample Size: 5 Lot Size: 20 Material: 6061 AL Inspector: JOE SAMPLE Finish: Standard (as milled) Upper Lower Minimum Maximum No. **Dimension or Print Note** Inspection Tool* **Notes Tolerance** Tolerance Results Results 1 .250 .005 .005 .245 Caliper Pass 2 1.000 .005 .005 1.002 Caliper **Pass** 3 .500 .005 .005 .504 Caliper **Pass** 4 1.000 .005 .005 .998 Caliper Pass 5 .500 .005 .005 .504 Caliper **Pass** 6 2.000 .005 .005 2.003 Caliper **Pass** 7 1.500 .005 .005 1.498 Caliper **Pass** 8 3.000 .005 .005 3.004 Caliper **Pass** 9 2.000 .005 Caliper Pass .005 1.998 10 .625 .005 .005 **Pass** Caliper **Pass** 11 .500 .005 .005 .500 Caliper Pass 12 .350 .005 .005 .350 Caliper **Pass** 13 4-40 helicials Go/No Go Go/No Go **Pass** 4-40 Go/No-go Gauge **Pass** 14 600 .005 .005 603 Caliper Pass 15 4-40 helicials Go/No Go Go/No Go Pass 4-40 Go/No-go Gauge Pass 16 .500 .005 .005 .501 Caliper Pass 17 1.000 .005 .005 1.001 Caliper **Pass** 18 .250 .005 .005 .254 Caliper **Pass** 19 .500 .005 .005 .501 Caliper Pass 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34



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^{*}Parts are to be inspected using calibrated tooling