

Dimensional Inspection Report

Project: Default Project
Part Name: Part 1
Drawn by: Tylor Good
Date: 11/6/2025
Scale: 5:3
Inspector: _____
Student: _____

1. Overall Dimensions

Feature	Description	Nominal (mm)	Tolerance	Measured	Pass/Fail
1	Overall Length	32.02	±0.010		
2	Overall Height	28.84	±0.010		
3	Step Height	4.5	—		
4	Step Width	2.0	—		
5	Width (Depth)	8.75	±0.005		

2. Hole Features

Feature	Description	Nominal (mm)	Tolerance	Measured	Pass/Fail
6	Ø Large Hole	Ø20	±0.005		
7	Large Hole Position (X from left)	16.00	±0.05		
8	Large Hole Position (Y from bottom)	16.00	±0.05		
9	Ø Small Hole	Ø9.5	±0.010		
10	Small Hole Position (X from left)	8.0	±0.05		
11	Small Hole Position (Y from bottom)	8.0	±0.05		
12	Threaded Hole	M12×1.5	6H Thru		

3. Chamfers and Angles

Feature	Description	Nominal	Tolerance	Measured	Pass/Fail
13	Chamfer Angle	45°	±1°		
14	Chamfer Width	0.85	±0.05		

4. Surface and Thread Checks

Feature	Description	Requirement	Actual	Pass/Fail
15	Thread M12×1.5 pitch accuracy	Go/No-Go gauge		

16	Surface finish	Per class requirement		
17	Visual inspection	No burrs / defects		

5. Notes & Comments

6. Summary

Criteria	Result
Total Features Checked	17
Pass	
Fail	
Inspector Signature	_____
Date	_____