



3D PRINTING PARAMETERS		
PARAMETER	TYPICAL VALUE	DESCRIPTION
LAYER HEIGHT	0.20 mm	Vertical resolution per layer.
WALL THICKNESS	1.2 mm (~3 walls)	Number of perimeter walls.
INFILL DENSITY	15-35 %	Internal structure fill percentage.
PRINTING SPEED	~60 mm/s (standard)	Linear print speed of nozzle.
NOZZLE TEMPERATURE	210-220 °C (PLA)	Extruder temperature.
BED TEMPERATURE	60 °C (PLA)	Heated bed temperature.
COOLING FAN SPEED	100 %	Improves surface finish and overhangs.
SUPPORTS	Enabled	Optional for overhangs.
ADHESION TYPE	None	No special adhesion; PEI textured plate.

CREATED BY	RULOBOT TEAM 08/06/2025	
DOCUMENT NAME	RULOBOT_ASSEMBLY	
TITLE	Front_Wheel_Hub	
MANUFACTURING TECHNOLOGY	FDM 3D PRINTING	

APPROVED BY			WILMER DE JESÚS REYES 08/12/2025		
EVENT			WRO SINGAPORE INTERNATIONAL FINAL		
MATERIAL			PLA		
REV	DATE OF ISSUE		SHEET		
REV1	08/12/2025		1		
					