

CHILL additive manufacturing 3D printing of polymeric materials

3D printing, also known as additive manufacturing, offers numerous advantages. One of its most significant benefits is that it provides complete freedom of design. With this technology, it's possible to create complex organic structures that couldn't be manufactured using traditional methods. In addition, separate parts can be seamlessly integrated into a single print, which reduces assembly steps and leads to more efficient production.

CHILL can assist you in selecting and developing materials or optimizing your raw materials into a filament suitable for 3D printing. We can also print your prototypes, biomedical applications, and mechanical parts to your specifications.

	EQUIPMENT	MAXIMUM VOLUME	NOZZLE	RESOLUTION
Fused Deposition Modeling (FDM)	Ultimaker S5	330 x 240 x 300 mm	N0.25	150-60 microns
			N0.4	200-20 microns
			C0.6	400-40 microns
			N0.8	600-200 microns
	Ultimaker S3	230 x 190 x 200 mm	N0.25	150-60 microns
			N0.4	200-20 microns
			N0.8	600-200 microns
	Ultimaker 3	215 x 215 x 200 mm	N0.25	150-60 microns
			N0.4	200-20 microns
			N0.8	600-200 microns
Ultimaker 2+	215 x 215 x 200 mm	N0.25	150-60 microns	
		N0.4	200-20 microns	
		N0.6	400-40 microns	
		N0.8	600-200 microns	
		N0.8	600-200 microns	
Cartesio 2016	200 x 300 x 200 mm	N0.4	200-100 microns	
		N0.8	200-100 microns	
Blackbelt 3D printer	330 x 230 x infinite mm	N0.6		
		N0.8		
Arburg Plastic Freeforming (APF)	Arburg Freeformer200-3x	189 x 134 x 230 mm	N0.15 N0.2 N0.25	400-100 microns
Stereolithography (SLA)	Formlabs Form 2	145 x 145 x 175 mm		300-25 microns
Additional equipment	Formlabs Post-curing system			
	Filament drying set up			
	Cad design in Fusion 360			
Selective Laser Melting (SLM)	Aconity MIDI+	Ø 250 mm x H 250 mm		80-500 microns
Metal Fused Filament Fabrication	Ultimaker S5	100 x 100 x 100 mm		200-20 microns

