

Manufacturing Capabilities

January 2020



Sample Parts, Stainless Steel

On-Demand Manufacturing Capabilities

Upload your 3D CAD files to request your quote on geomiq.com

CNC Machining	CNC Milling (3, 4, 5 Axis)	Mill-Turning
	CNC Turning (Lathe)	EDM Machining
Injection Moulding	Thermoplastics & Silicone	Gas Assisted
	Overmoulding	Tool Making
Sheet Metal	Bending	
	Cutting	
3D Printing	SLS	
	MJF	

Additional Manufacturing Services

Upload your 3D CAD files to request your quote on www.geomiq.com

- Certificates on Request** CoC, Material Certificates, RoHS
- Expedited Production** As fast as 5 day lead times for CNC & Sheet Metal, 3 days for 3D Printing
- Advanced Solutions** Contact: support@geomiq.com for special requirements

CNC Machining Capabilities

CNC Machining, Aluminium 6061

Materials

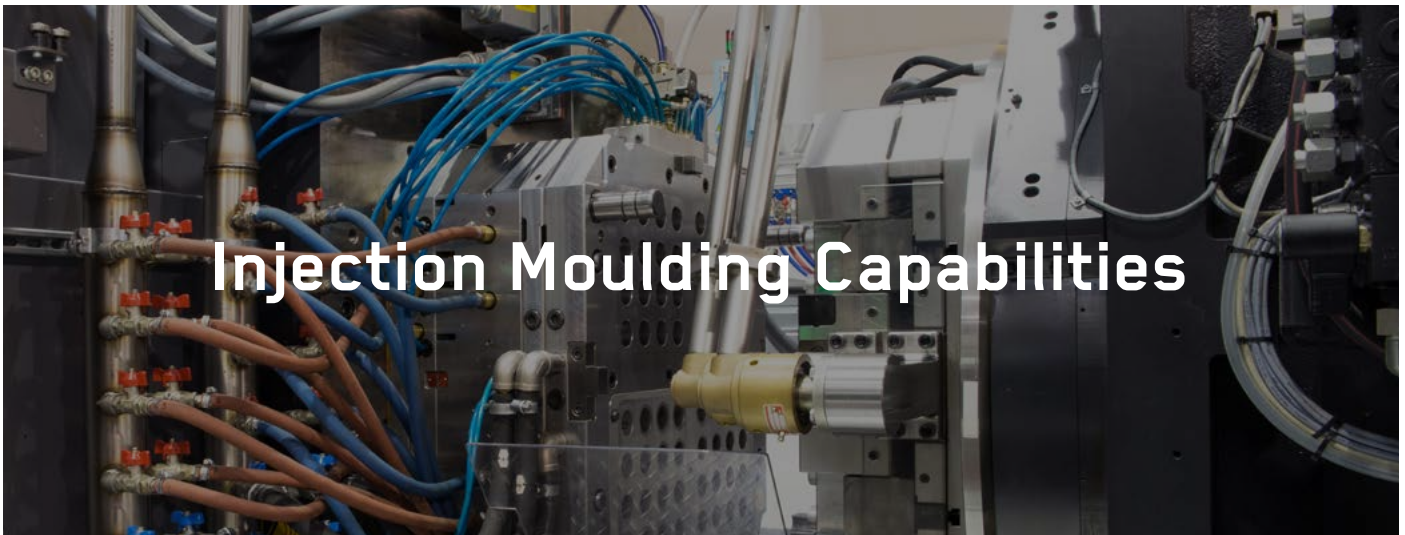
Aluminium	6061, 6082, 7050, 7075
Stainless Steel	303, 304, 304L, 316, 316L
Copper	Red/Bronze
Brass	CZ121, CZ131
Magnesium	AZ31
Steel Alloy	4140
Titanium	Grade 5 Ti6Al4V
Plastics	ABS, ABS/PC, PC, POM, CPVC, HDPE, LDPE, NYLON, PEEK, PEI, PET, PMMA, PPSU PP, PS (HIPS), PSU, PTFE, PVC, UHMW
Other Materials	Available on request. Contact support@geomiq.com

Secondary Finishes

As Machined	Toolmarks visible
Polished	Polished
Anodizing	Type II (Clear or Colored), Type III (Hardcoat)
Bead Blasting	Bead blasting, Graded bead blasting
Plating	Nickle plating, Silver plating, Custom*
Custom Finishes:	Available on request. Contact support@geomiq.com

Treatment

Heat Treatment	Heat treatment
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Injection Moulding Capabilities

Injection Moulding, ABS

Materials

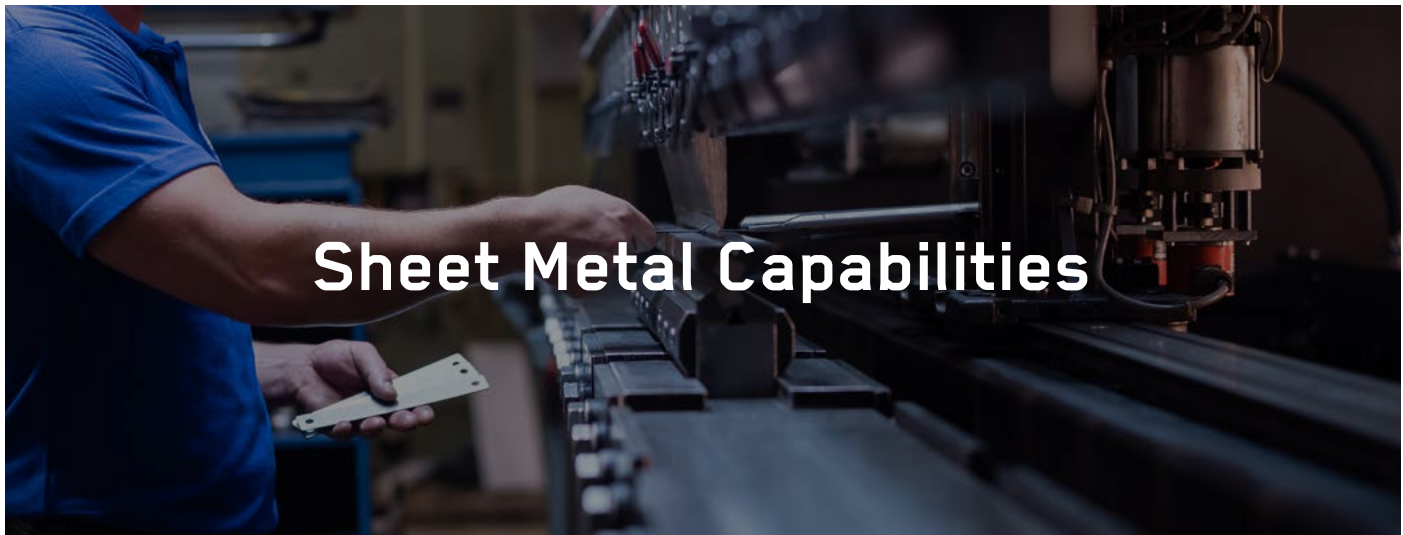
POM	PC	LDPE	PS(GPPS)
PMMA	PBT/PET	HDPE	TPC-ET
ABS	PEEK	PPS	TPU
PA 6/6	PEI	PP	TPV
Other Materials	Available upon request. Contact support@geomiq.com		

Surface Finish

Non-Cosmetic	Light bead blast	Fine matte finish <small>(SPI C1)</small>	Super high-gloss finish <small>(SPI A1)</small>
Low-Cosmetic	Medium bead blast	Fine semi-gloss finish <small>(SPI B1)</small>	TPC-ET
For more details:	SPI standard guide available on: www.geomiq.com/spi-mould-finishes/		

Capabilities

Single cavity moulds	Soft & Hard Tooling	Multi-cavity moulds	Family moulds
For more details:	Contact support@geomiq.com		



Sheet Metal, Bending & Folding

Sheet Metal Services

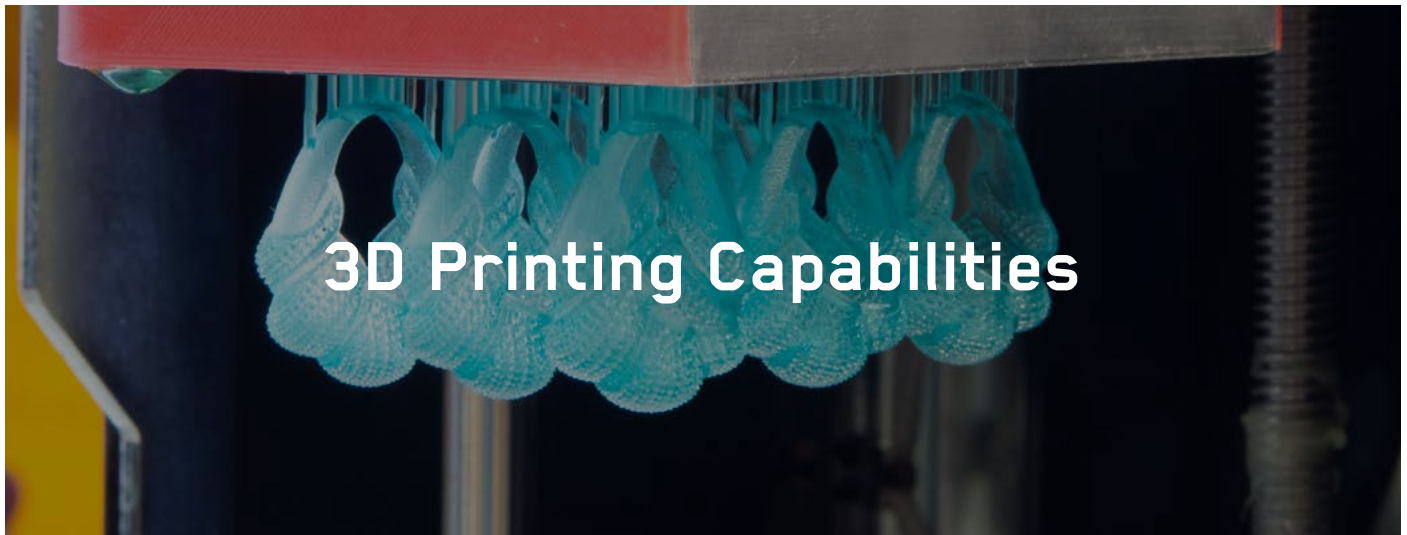
Laser Cutting	Fiber, CO2 (Best for steels up to 18mm)
Water Jet Cutting	Accuracy up to 0.1mm (Best for steels between 18mm - 40mm)
Bending & Folding	Magnetic and Hydraulic, custom tooling available on request
Welding & Fabrication	Basic spot welding and MIG/TIG welding

Materials

Mild Steel	
Stainless Steel	
Aluminium	
Other Materials	Available upon request. Contact support@geomiq.com

Thickness available, in (mm)	0.9, 1.2, 1.5, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20
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*Available on request.



SLS 3D Printing

Technology & Materials

Technology	Materials	Colours	Available Finishes
SLS	Nylon PA2200	Black,White	Standard, Vibro-Polished
HP MJF	Nylon PA11 Nylon PA12 40% Glass Bead Filled PA12	Grey (Natural), Black	Standard, Sand-Blasted, Tumbled Painted
DMLS	Stainless Steel 316L Titanium Ti 6Al4V Maraging Steel 1.2709	Grey (Natural)	Standard

Design Guidelines & Layer Height

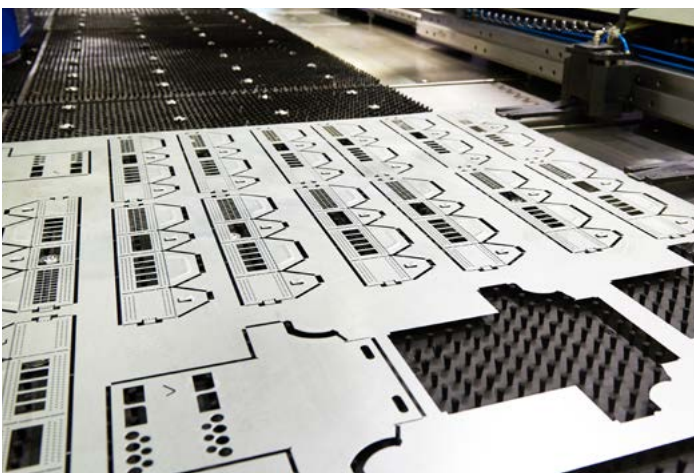
	Max-Build	Layer-Thickness	Achievable Tolerance
SLS	300mm x 230mm x 190mm		0.1-0.2mm
HP MJF	380mm x 380mm x 284mm		0.1-0.2mm
DMLS	250mm x 250mm x 300mm	0.02-0.06mm	



CNC Machining, aluminium 6061, as machined



Injection Moulding, Silicone Rubber



Sheet Metal, Water Jet Cutting, Stainless Steel



3D Printing, DMLS, Titanium

Geomiq is an on-demand digital manufacturing platform, designed for fast moving engineering teams, building the world's most innovative products.

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